The Journal of THORACIC AND CARDIOVASCULAR SURGERY

Official organ, The American Association for Thoracic Surgery

Editor BRIAN BLADES, *Washington, D. C.*

Associate editors THOMAS H. BURFORD, *St. Louis*
PAUL ADKINS, *Washington, D. C.*

Advisory editorial board WILLIAM E. ADAMS, *Chicago*
EDWARD J. BEATTIE, JR., *New York*
WILFRED G. BIGELOW, *Toronto*
EDWARD D. CHURCHILL, *Boston*
O. THERON CLAGETT, *Rochester, Minn.*
ANTHONY R. CURRERI, *Madison*
DONALD B. EFFLER, *Cleveland*
LEO ELOESSER, *San Francisco*
ROBERT E. GROSS, *Boston*
CAMERON HAIGHT, *Ann Arbor*
STUART W. HARRINGTON, *Rochester, Minn.*
JOHN C. JONES, *Los Angeles*
HIRAM T. LANGSTON, *Chicago*
HERBERT C. MAIER, *New York*
DONALD L. PAULSON, *Dallas*
DAVID C. SABISTON, JR., *Durham, N. C.*
PAUL C. SAMSON, *Oakland*

Advisory editorial board representing the Society of Thoracic Surgeons of Great Britain and Ireland LORD RUSSELL C. BROCK, *London*
SIR CLEMENT PRICE THOMAS, *London*

EVARTS A. GRAHAM, *Editor, 1931-1957*
EMILE HOLMAN, *Editor, 1957-1962*

Volume 55, January-June, 1968
The C. V. Mosby Company
St. Louis, Mo.

Volume 55
Copyright, © 1968 by The C. V. Mosby Company
All rights reserved
Printed in the United States of America

Index to volume 55

Author index*

A

ÅBERG, TORKEL H. J. (*See* MILLER, ÅBERG, and GERBODE), 668

ADKINS, P. C. (*See* MASSUMI, ADKINS, REICHELDERFER, FRAGA, and SAMPSON), 711

AHMADI, ALI, FABER, PENFIELD L., MILLOY, FRANK, and JENSIK, ROBERT J. Intrathoracic splenosis, 677

AMBROSE, PAT (*See* ASHMORE, SVITEK, and AMBROSE), 691

AMES, ALAN W. (*See* FRIESEN, WOODSON, AMES, HERR, STARR, and KASSEBAUM), 271

ANKENEY, JAY L., LEVERETT, F. LYNN, MEYERS, A., RENNER, DANIEL, and BEHELER, EDWARD M. The role of the liver in the homologous blood reaction in dogs, 288

ARMSTRONG, RAYMOND G. (*See* PATTERSON, SCHMITT, and ARMSTRONG), 16

ARONSTAM, ELMORE M., GEIGER, JAMES P., and GILLESPIE, JAMES T. Reoperation for mitral stenosis, 783

ASHMORE, P. G., SVITEK, VICTOR, and AMBROSE, PAT. The incidence and effects of particulate aggregation and microembolism in pump-oxygenator systems, 691

—. Discussion of tetralogy of Fallot, 77

ATTAH, EDWARD B., and HAJDU, STEVEN I. Benign and malignant tumors of the esophagus at autopsy, 396

AUSTEN, W. GERALD. (*See* DAVIES, HAMMOND, and AUSTEN), 284

AVERY, MOLLY (*See* BRYANT, EISEMAN, and AVERY), 255

AYRES, STEPHEN M. (*See* GREGORY, AYRES, GIANNELLI, and CONKLIN), 426

B

BACOS, JAMES M. (*See* SMYTH, BOIVIN, and BACOS), 594

BAHNSON, HENRY T. Discussion of tetralogy of Fallot, 78

BAO, KATHERINE S. (*See* LEVINE, BAO, and SILVER), 732

BARGERON, L. M., JR. (*See* EDWARDS and BARGERON), 60

BARNER, HENDRICK B., RITTENHOUSE, EDWARD A., and WILLMAN, VALLEE L. Carotid-subclavian bypass for "subclavian steal syndrome": the concept of secondary relative carotid stenosis, 773

BARNES, ROBERT (*See* GILBERT, BERGLUND, DAHLGREN, OVENFORS, and BARNES), 565

BECKMANN, CHARLES (*See* DOOLEY, BECKMANN, and HOOD), 719

BEHELER, EDWARD M. (*See* ANKENEY, LEVERETT, MEYERS, RENNER, and BEHELER), 288

BENFIELD, JOHN R. (*See* FLAHERTY, CRUMMY, and BENFIELD), 797

BERGLUND, ERIK (*See* GILBERT, BERGLUND, DAHLGREN, OVENFORS, and BARNES), 565

BERNHARDT, LOUIS C., MEYER, THOMAS, and YOUNG, WILLIAM P. Bifid sternum: case report and surgical management, 758

BERRY, FRANK B. Discussion of war wounds, 22

BILLIG, DONAL M., HALLMAN, GRADY L., BLOODWELL, ROBERT D., and COOLEY, DENTON A. Surgical treatment of cardiac defects associated with variations in cardiac position, 80

—. Discussion of dextrocardia, 15

BINET, J. P., CARPENTIER, A., and LANGLOIS, J. Clinical use of heterografts for replacement of the aortic valve, 238

BING, RICHARD J. (*See* TSCHOPP, RAKUSAN, GUDBJARNASON, and BING), 466

BIRCH, A. A., JR. Pulmonary compliance and functional residual capacity determinations in dogs with reimplanted left lungs, 196

BLACK, HARRISON (*See* DEKKER, BLACK, and VON LICHTENBERG), 434

BLOODWELL, ROBERT D. (*See* BILLIG, HALLMAN, BLOODWELL, and COOLEY), 80

BOCAGE, ALBERT J. (*See* HARRIS, TOTH, and BOCAGE), 361

BOIVIN, MICHAEL R. (*See* SMYTH, BOIVIN, and BACOS), 594

BONNABEAU, RAYMOND C., JR. (*See* IBARRA-PEREZ, GANNON, MANTINI, BONNABEAU, and LILLEHEI), 337

—. (*See* LILLEHEI, BONNABEAU, and SELLERS), 94

BORDER, J. R. (*See* HOPKINSON, BORDER, and SCHENK), 580

*January, pp. 1-148; February, pp. 149-298; March, pp. 299-456; April, pp. 457-604; May, pp. 605-762; June, pp. 763-916.

BRANTIGAN, OTTO C. Discussion of hiatal hernia, 54

BROWN, BRUCE G. (*See* GOLDFARB, BROWN, CONTI, and GOTT), 243

BROWNLEE, R. T., and DAFOE, C. S. Complete reduplication of the right lung, 653

BRYANT, LESTER R., CHICKLO, JAMES M., CRUTCHER, RICHARD, DANIELSON, GORDON K., MALETTE, WILLIAM G., and TRINKLE, J. KENT. Management of thoracic empyema, 850

—, EISEMAN, BEN, and AVERY, MOLLY. Studies of the porcine lung as an oxygenator for human blood, 255

—. (*See* DANIELSON, COOPER, TALWAR, IFUKU, and BRYANT), 842

—. (*See* DANIELSON, HASBROUCK, and BRYANT), 864

BURNS, GERALD P., and SCHENK, WORTHINGTON G., JR. The effect of hemorrhage and dextran infusion on blood flow in stenotic arteries, 572

C

CAMISHION, RUDOLPH C., PADULA, RICHARD T., KELSEY, DAVID M., and PIERUCCI, LOUIS, JR. Surgical approach to the totally calcified left atrium, 698

CARPENTIER, A. (*See* BINET, CARPENTIER, and LANGLOIS), 238

CAT, JUAN M. (*See* DI BELLO, CAT, and SCHMIDT), 859

CAREY, JOSEPH S., and HUGHES, RICHARD K. Hemodynamic studies in open pneumothorax, 538

CHAUX, AURELIO (*See* HARKEN, MATLOFF, ZUCKERMAN, and CHAUX), 369

CHAVEZ, CARLOS M., FAIN, WILLIAM R., and CONN, J. HAROLD. Angiography in giant cystic disease of lung, 638

CHARETTE, E. P. (*See* DOBELL, CHARETTE, and CHUGHTAI), 70

CHEEK, JOHN M. (*See* PORTER and CHEEK), 882

CHENG, CEFERINO (*See* GARZON, CHENG, PANGAN, and KARLSON), 546

CHERNIACK, NEIL S. (*See* NEUHAUS and CHERNIACK), 144

CHESTER, CLARENCE L. (*See* LEAFSTEDT, SWEETMAN, CHESTER, and THORPE), 626

CHIBA, SHIGEHIRO (*See* IKEDA, NEYAZAKI, CHIBA, YONETI, and SUZUKI), 642

CHICKLO, JAMES M. (*See* BRYANT, CHICKLO, CRUTCHER, DANIELSON, MALETTE, and TRINKLE), 850

CHRISTOPHERSEN, ERLING B. (*See* MAY, CHRISTOPHERSEN, MIDDLEMAN, DEWEESE, and MAHONEY), 340

CHRONIS, NICHOLAOS (*See* MOULOPOULOS, DARSINOS, ELIAS, CHRONIS, and PISTEVOS), 518

CHUGHTAI, M. S. (*See* DOBELL, CHARRETTE, and CHUGHTAI), 70

CINCOTTI, JOHN J. Discussion of hiatal hernia, 53

CLAGETT, O. THERON. The management of spontaneous pneumothorax, 761 (Edit.)

CLARKSON, PATRICIA M. (*See* KISER, ONGLEY, KIRKLIN, CLARKSON, and MCGOON), 6

CLEVELAND, RICHARD J., KEMP, V. ERIC, and LOWER, RICHARD R. Acute aortic valve insufficiency as a result of a bullet wound: report of a case of successful treatment, 123

CONKLIN, E. FOSTER (*See* GREGORY, AYRES, GIANNELLI, and CONKLIN), 426

CONKLIN, WILLIAM S. Post-pneumonectomy empyema: single-stage operative treatment, 634

COOLEY, DENTON A. (*See* BILLIG, HALLMAN, BLOODWELL, and COOLEY), 80

CONN, J. HAROLD (*See* CHAVEZ, FAIN, and CONN), 638

CONNOLLY, JOHN E. (*See* VERSKA and CONNOLLY), 411

COOPER, ERIC (*See* DANIELSON, COOPER, TALWAR, IFUKU, and BRYANT), 842

CONTI, CHARLES R. (*See* GOLDFARB, BROWN, CONTI, and GOTT), 243

COX, WILLIAM L., JR., and WEBB, WATTS R. Test for competency of the gastroesophageal junction, 603

CRUMMY, ANDREW B. (*See* FLAHERTY, CRUMMY, and BENFIELD), 797

CRUTCHER, RICHARD R., WALTUCH, THEODORE L., and GHOSH, ASHOKE K. Bronchial lipoma: report of a case and literature review, 422

—. (*See* BRYANT, CHICKLO, CRUTCHER, DANIELSON, MALETTE, and TRINKLE), 850

D

DAFOE, C. S. (*See* BROWNLEE and DAFOE), 653

DAHLGREN, SVEN (*See* GILBERT, BERGLUND, DAHLGREN, OVENFORS, and BARNES), 565

DANIELSON, GORDON K., COOPER, ERIC, TALWAR, JANAK, IFUKU, MASUMI, and BRYANT, LESTER R. Cardiac growth following atrial replacement with prosthetic materials, 842

—, HASBROUCK, JAN D., and BRYANT, LESTER R. Cannulation under local and regional anesthesia for the "salvage" cardiac patient, 864

—. (*See* BRYANT, CHICKLO, CRUTCHER, DANIELSON, MALETTE, and TRINKLE), 850

DAVIES, ALLEN L., HAMMOND, GRAEME L., and AUSTEN, W. GERALD. A new approach to rapid coronary anastomosis: onlay graft without intimal approximation, 284

DARSINOS, JOHN TH. (*See* MOULOPOULOS, DARSINOS, ELIAS, CHRONIS, and PISTEVOS), 518

DEAL, CEDRIC, SHORE, JACK, KERTH, WILLIAM J., and GERBODE, FRANK. Temporary connecting lead for transvenous pacemakers, 359

—, OSBORN, JOHN J., MILLER, GEORGE E., JR., and GERBODE, FRANK. Pulmonary compliance in congenital heart disease and its relation to cardiopulmonary bypass, 320

DE BAKEY, MICHAEL E. Human cardiac transplantation, 447 (Edit.)

DEKKER, ANDREW, BLACK, HARRISON, and VON LICHTENBERG, FRANZ. Mitral valve stenosis: a pathologic study, 434

DE LA TORRE, ANGEL (*See* LINHART, DE LA TORRE, RAMSEY, and WHEAT), 811

DEMUTH, WILLIAM E., JR. Discussion of war wounds, 22

DERRICK, JOHN R. (*See* YOUMANS, WHITE, and DERRICK), 383

DEWEESE, JAMES A. (*See* MAY, CHRISTOPHERSEN, MIDDLEMAN, DEWEESE, and MAHONEY), 340

DI BELLO, RAÚL, CAT, JUAN M., and SCHMIDT, VÍCTOR ZERBINO. Chronic hydatid pericarditis with effusion, 859

DOBELL, A. R. C., CHARRETTE, E. P., and CHUGHTAI, M. S. Correction of tetralogy of Fallot in the young child, 70, 78

DOOLEY, BYRON N., BECKMANN, CHARLES, and HOOD, RICHARD H., JR. Primary mesothelioma of the pericardium: successful surgical removal, 719

DOWLING, EDWARD R. (*See* HOLDEFER, EDWARDS, and DOWLING), 873

DOYLE, EUGENIE F. (*See* WALLSH, REPPERT, DOYLE, and SPENCER), 333

E

EDMARK, K. W., PROCTOR, R. L., THOMAS, G. I., and JONES, T. W. DC defibrillator failure, 741

EDWARDS, JESSE E. (*See* QUATTLEBAUM, KALKE, EDWARDS, and LILLEHEI), 231

EDWARDS, W. STERLING, and BARGERON, L. M., JR. The superiority of the Glenn operation for tricuspid atresia in infancy and childhood, 60, 69

—. (*See* HOLDEFER, EDWARDS, and DOWLING), 873

EISEMAN, BEN (*See* BRYANT, EISEMAN, and AVERY), 255

ELIAS, CONSTANTINOS I. (*See* MOULOPOULOS, DARSINOS, ELIAS, CHRONIS, and PISTEVOS), 518

EMERSON, GEORGE L., EMERSON, MARION S., SHERWOOD, CHARLES E., and TERRY, ROGER. Spontaneous regression of bronchogenic carcinoma: 12-year survival, 225

EMERSON, MARION S. (*See* EMERSON, EMERSON, SHERWOOD, and TERRY), 225

ERAKLIS, ANGELO J. (*See* MCNAMARA, ERAKLIS, and GROSS), 55

ERSHLER, IRVING (*See* NELSON, JENSON, HORSLEY, and ERSHLER), 216

ESCHER, DORIS J. W. (*See* FURMAN and ESCHER), 737

F

FABER, L. PENFIELD (*See* AHMADI, FABER, MILLOY, and JENSIK), 677

FADHLI, H. A. Congenital diaphragmatic obstruction of the aorta and the celiac artery: a new clinical entity, 431

FAIN, WILLIAM R. (*See* CHAVEZ, FAIN, and CONN), 638

FAVALORO, RENE G. Double internal mammary artery implants: operative technique, 457

FELL, STANLEY. Discussion of iatrogenic perforation of esophagus, 28

FLAHERTY, TIMOTHY T., CRUMMY, ANDREW B., and BENFIELD, JOHN R. The angiographic demonstration of the left atrial anastomosis in pulmonary reimplantation and transplantation, 797

FRAGA, J. R. (*See* MASSUMI, ADKINS, REICHELDERFER, FRAGA, and SAMPSON), 711

FREEMAN, R. (*See* WRIGHT, FREEMAN, and JOHNSTON), 280

FREISEN, W. GLENN, WOODSON, R. DONALD, AMES, ALAN W., HERR, RODNEY H., STARR, ALBERT, and KASSEBAUM, DONALD G. A hemodynamic comparison of atrial and ventricular pacing in postoperative cardiac surgical patients, 271

FUJIMURA, SHIGEFUMI (*See* SUZUKI, NAKADA, WATANABE, FUJIMURA, and KAWAKAMI), 200

FURMAN, SEYMOUR, and ESCHER, DORIS J. W. Retained endocardial pacemaker electrodes, 737

G

GABAUER, IVAN (*See* SILVAY, ŠUJANSKÝ, SCHNORRER, HRUBIŠKOVÁ, SLEZÁK, GABAUER, and STYK), 350

GAHAGAN, THOMAS. Discussion of hiatal hernia, 40

GANNON, PAUL G. (*See* IBARRA-PEREZ, GANNON, MANTINI, BONNABEAU, and LILLEHEI), 337

GARZON, ANTONIO A., CHENG, CEFERINO, PANGAN, JOSE, and KARLSON, KARL E. Hypothermic hyperbaric lung preservation for 24 hours with replantation, 546

GAUTAM, H. P. Left atrial inferior vena cava with atrial septal defect, 827

GEHA, ALEXANDER S., and MCGOON, DWIGHT C. Effect of continuous rhythmic muscular contraction on the patency of an intramuscularly implanted systemic artery, 328

—, —, and TITUS, JACK L. Effect of perfusion on the coronary arteries in calves, 479

GEIGER, JAMES P. (*See* ARONSTAM, GEIGER, and GILLESPIE), 783

GERBODE, FRANK (*See* DEAL, OSBORN, MILLER, and GERBODE), 320

—. (*See* DEAL, SHORE, KERTH, and GERBODE), 359

—. (*See* MILLER, ÅBERG, and GERBODE), 668

GERSONY, WELTON M., WILLERSON, W. DARRELL, JR., JOHNSON, ALVIS F., and WEBB, WATTS R. Aortic valvuloplasty during acute rheumatic fever: hemolytic anemia due to recurrent aortic insufficiency, 598

GETZEN, LINDSAY C., REHMAN, IRVING, and HOLLOWAY, CHARLES K. Extrathoracic assisted breathing evaluated by cinefluorography, 169

GHOSH, ASHOKE K. (*See* CRUTCHER, WALTUCH, and GHOSH), 422

GIANNELLI, STANLEY, JR. (*See* GREGORY, AYRES, GIANNELLI, and CONKLIN), 426

GILBERT, JOSEPH W., JR., BERGLUND, ERIK, DAHLGREN, SVEN, OVENFORS, CARL-OLOF, and BARNES, ROBERT. Experimental pulmonary hypertension in the dog: a preparation involving repeated air embolism, 565

GILLESPIE, JAMES T. (*See* ARONSTAM, GEIGER, and GILLESPIE), 783

GINSBERG, R. J. (*See* PEARSON, HENDERSON, GROSS, GINSBERG, and STONE), 605

GLENN, WILLIAM W. L. Discussion of tricuspid atresia, 67

GOLDFARB, DAVID, BROWN, BRUCE G., CONTI, CHARLES R., and GOTT, VINCENT L. Cardiovascular responses to diastolic augmentation in the intact canine circulation and after ligation of the anterior descending coronary artery, 243

GOLDING, ARTHUR L., STEELE, JOHN D., and SALKIN, DAVID. External drainage of large bullae in severe generalized emphysema, 891

GOTT, VINCENT L. (*See* GOLDFARB, BROWN, CONTI, and GOTT), 243

GRAY, FREDERIC W., SCHORR, ROBERT T., and HEILBRONN, HANS. Intraosseous azygography, 389

GREENFIELD, LAZAR J., PEARCE, HENRY J., and NICHOLS, ROBERT T. Recovery of respiratory function and lung mechanics following experimental pulmonary embolectomy, 160

—. (*See* TARLOV and GREENFIELD), 134

GREGORY, JOHN J., AYRES, STEPHEN M., GIANNELLI, STANLEY, JR., and CONKLIN, E. FOSTER. Treatment of acute respiratory acidosis complicating status asthmaticus, 426

GRILLO, HERMES C. (*See* MULLIKEN and GRILLO), 418

GRIMES, ORVILLE F., and ZBORALSKE, F. FRANK. Carcinoma in association with hiatal hernia, 30, 40

GROSS, A. E. (*See* PEARSON, HENDERSON, GROSS, GINSBERG, and STONE), 605

GROSS, ROBERT E. (*See* MCNAMARA, ERAKLIS, and GROSS), 55

GUDBJARNASON, SIGMUNDUR (*See* TSCHOPP, RAKUSAN, GUDBJARNASON, and BING), 466

H

HAIGHT, CAMERON (*See* MCLAUGHLIN, MORRIS, and HAIGHT), 188

HAJDU, STEVEN I. (*See* ATTAH and HAJDU), 396

HALLER, J. ALEX, JR. (*See* WHITE, KABACK, and HALLER), 704

—. Discussion of tricuspid atresia, 68

HALLMAN, GRADY L. (*See* BILLIG, HALLMAN, BLOODWELL, and COOLEY), 80

—. Discussion of tetralogy of Fallot, 77

—. Discussion of tricuspid atresia, 67

HAMMOND, GRAEME L. (*See* DAVIES, HAMMOND, and AUSTEN), 284

HARDY, JAMES D. Discussion of iatrogenic perforation of esophagus, 28

HARKEN, DWIGHT E., MATLOFF, JACK M., ZUCKERMAN, WALTER, and CHAUX, AURELIO. A new mitral valve, 369

HARRIS, A. SIDNEY, TOTH, LOUIS A., and BOCAGE, ALBERT J. Factors in coordination of the natural aortic pulse with an external pump-induced pulse, 361

HASBROUCK, JAN D. (*See* DANIELSON, HASBROUCK, and BRYANT), 864

HEILBRONN, HANS (*See* GRAY, SCHORR, and HEILBRONN), 389

HENDERSON, R. D. (*See* PEARSON, HENDERSON, GROSS, GINSBERG, and STONE), 605

HENDREN, W. HARDY. Discussion of iatrogenic perforation of esophagus, 28

HERENDEEN, THOMAS L. (*See* SHUMACKER and HERENDEEN), 489

HERR, RODNEY H. (*See* FRIESEN, WOODSON, AMES, HERR, STARR, and KASSEBAUM), 271

HIEBERT, CLEMENT A. Discussion of hiatal hernia, 53

HIRAO, MASARU (*See* TAGUCHI, SASAKI, OKII, MATSUURA, and HIRAO), 501
HIRSCH, DAVID M., JR., and NEVILLE, WILLIAM E. Total esophageal replacement with a segment of ileum, 211
HOEKSEMA, TAMMO D. (*See* RASTELLI, HOEKSEMA, MCGOON, and KIRKLIN), 116
HOLDEFER, WILFRED F., EDWARDS, W. STERLING, and DOWLING, EDWARD R. An experimental approach to mitral valve replacement with autologous pericardium, 873
HOLLOWAY, CHARLES K. (*See* GETZEN, REHMAN, and HOLLOWAY), 169
HOOD, RICHARD H., JR. (*See* DOOLEY, BECKMANN, and HOOD), 719
HOPKINSON, B. R., BORDER, J. R., and SCHENK, W. G., JR. Experimental closed chest trauma, 580
HORSLEY, BRENT L. (*See* NELSON, JENSON, HORSLEY, and ERSHLER), 216
HRUBIŠKOVÁ, KLÁRA (*See* SILVAY, ŠUJANSKÝ, SCHNORRER, HRUBIŠKOVÁ, SLEZÁK, GABAUER, and STYK), 350
HUFNAGEL, CHARLES A. (*See* PIFARRÉ, WILSON, and HUFNAGEL), 535
—. (*See* PIFARRÉ, WILSON, LAROSSA, and HUFNAGEL), 309
HUGHES, RICHARD K. (*See* CAREY and HUGHES), 538
HURWITZ, R. A. (*See* MULDER, KATZ, MOSS, and HURWITZ), 786

I

IBARRA-PEREZ, CARLOS, GANNON, PAUL G., MANTINI, EMIL L., BONNABEAU, RAYMOND C., JR., and LILLEHEI, C. WALTON. An instrument to prevent calcium embolism in open-heart surgery, 337
IFUKU, MASUMI (*See* DANIELSON, COOPER, TALWAR, IFUKU, and BRYANT), 842
IKEDA, MICHIAKI, NEYAZAKI, TOSHIHIKO, CHIBA, SHIGEHIRO, YONETI, MINORU, and SUZUKI, CHIGASHI. Bronchial vascular pattern of various pulmonary diseases, with particular emphasis on its diagnostic value in pulmonary cancer, 642
IKEDA, SADAO (*See* PARKER, IKEDA, and VUCINIC), 88
IRAOLA, LADISLAO (*See* WELSH and IRAOLA), 486

J

JENKINS, BARBARA J. Carcinosarcoma of the lung: report of a case and review of the literature, 657
JENSIK, ROBERT J. (*See* AHMADI, FABER, MILLOY, and JENSIK), 677
JENSON, CONRAD B. (*See* NELSON, JENSON, HORSLEY, and ERSHLER), 216
JOHNSON, ALVIS F. (*See* GERSONY, WILLERSON, JOHNSON, and WEBB), 598
JOHNSON, JULIAN, SCHWEGMAN, CLETUS W., and MAC VAUGH, HORACE, III. Early esophagogastrostomy in the treatment of iatrogenic perforation of the distal esophagus, 24
JOHNSTON, J. B. (*See* WRIGHT, FREEMAN, and JOHNSTON), 280
JOLLY, PHILIP C. (*See* THOMAS and JOLLY), 405
JONES, T. W. (*See* EDMARK, PROCTOR, THOMAS, and JONES), 741
JUDE, J. R. (*See* SMITH, MOBIN-UDDIN, LOMBARDO, MARTINEZ, and JUDE), 127
—. (*See* MOBIN-UDDIN, SMITH, LOMBARDO, and JUDE), 112

K

KABACK, MICHAEL M. (*See* WHITE, KABACK, and HALLER), 704
KAHN, RONALD R. Discussion of tetralogy of Fallot, 78
KALKE, BHAGAVANT (*See* QUATTLEBAUM, KALKE, EDWARDS, and LILLEHEI), 231
KARLSON, KARL E. (*See* GARZON, CHENG, PANGAN, and KARLSON), 546
KASSEBAUM, DONALD G. (*See* FRIESEN, WOODSON, AMES, HERR, STARR, and KASSEBAUM), 271
KATZ, R. D. (*See* MULDER, KATZ, MOSS, and HURWITZ), 786
KAWAKAMI, MINORU (*See* SUZUKI, NAKADA, WATANABE, FUJIMURA, and KAWAKAMI), 200
KAY, JEROME HAROLD (*See* TSUJI, REDINGTON, and KAY), 746
KEITH, J. D. (*See* TRUSLER, MUSTARD, and KEITH), 105
KELSEY, DAVID M. (*See* CAMISHION, PADULA, KELSEY, and PIERUCCI), 698
KERTH, WILLIAM J. (*See* DEAL, SHORE, KERTH, and GERBODE), 359
KEMP, V. ERIC (*See* CLEVELAND, KEMP, and LOWER), 123
KILLEN, DUNCAN A., and VALDES, LUIS G. Correction of the metabolic acidosis associated with use of ACD-preserved blood for cardiopulmonary bypass, 178
—. (*See* VALDES and KILLEN), 555
KILMAN, JAMES W. (*See* VASKO and KILMAN), 141
KIRKLIN, JOHN W. (*See* KISER, ONGLEY, KIRKLIN, CLARKSON, and MCGOON), 6
—. (*See* RASTELLI, HOEKSEMA, MCGOON, and KIRKLIN), 116
—. (*See* RASTELLI, ONGLEY, KIRKLIN, and MCGOON), 299
KISER, JOSEPH C., ONGLEY, PATRICK A., KIRKLIN, JOHN W., CLARKSON, PATRICIA M., and MCGOON, DWIGHT C. Surgical treatment of dextrocardia with inversion of ventricles and double-outlet right ventricle, 6

KIVELITZ, HANS, and REDO, S. FRANK. Pulmonary hemodynamics and alveolar gas exchange after implantation of an artificial right ventricle, 820

L

LAM, CONRAD R. Discussion of tricuspid atresia, 68

LANGLOIS, J. (*See* BINET, CARPENTIER, and LANGLOIS), 238

LANPHIER, EDWARD H. (*See* TAKITA, OLSZEWSKI, SCHIMERT, and LANPHIER), 682

LAROSSA, DONATO D. (*See* PIFARRÉ, WILSON, LAROSSA, and HUFNAGEL), 309

LEAFSTEDT, STUART W., SWEETMAN WILLIAM R., CHESTER, CLARENCE L., and THORPE, JOHN D. Multiple primary neoplasms of the lung, 626

LEE, CHUL. A substernal tunneller: an instrument for making substernal or subcutaneous tunnels, 754

LEPAGE, GILLES. Discussion of tricuspid atresia, 69

LEPLEY, DURWARD, JR. Discussion of tricuspid atresia, 69

LEVERETT, F. LYNN (*See* ANKENEY, LEVERETT, MEYERS, RENNER, and BEHELER), 288

LEVINE, KENNETH A., BAO, KATHERINE S., and SILVER, ARTHUR W. Repair of aortic coarctation and post-stenotic aneurysm in a 63-year-old woman, 732

LILLEHEI, C. WALTON, BONNABEAU, RAYMOND C., JR., and SELLERS, ROBERT D. Subaortic stenosis: diagnostic criteria, surgical approach, and late follow-up in 25 patients, 94

—. (*See* IBARRA-PEREZ, GANNON, MANTINI, BONNABEAU, and LILLEHEI), 337

—. (*See* QUATTLEBAUM, KALKE, EDWARDS, and LILLEHEI), 231

LILLY, JOHN R., and RANDOLPH, JUDSON G. Hiatal hernia and gastroesophageal reflux in infants and children, 42

LINHART, JOSEPH W., DE LA TORRE, ANGEL, RAMSEY, HOWARD W., and WHEAT, MYRON W., JR. The significance of coronary artery disease in aortic valve replacement, 811

LOMBARDO, CARLOS (*See* MOBIN-UDDIN, SMITH, LOMBARDO, and JUDE), 112

—. (*See* SMITH, MOBIN-UDDIN, LOMBARDO, MARTINEZ, and JUDE), 127

LOWER, RICHARD R. (*See* CLEVELAND, KEMP, and LOWER), 123

M

MCGOON, DWIGHT C. (*See* GEHA and MCGOON), 328

—. (*See* GEHA, MCGOON, and TITUS), 479

—. (*See* KISER, ONGLEY, KIRKLIN, CLARKSON, and MCGOON), 6

—. (*See* RASTELLI, HOEKSEMA, MCGOON, and KIRKLIN), 116

—. (*See* RASTELLI, ONGLEY, KIRKLIN, and MCGOON), 299

—. (*See* RASTELLI, RAHIMTOOLA, ONGLEY, and MCGOON), 834

—. (*See* SILVERMAN, MANKIN, and MCGOON), 264

MCLAUGHLIN, R. THOMAS, MORRIS, J. D., and HAIGHT, CAMERON. The morbid nature of the migrating foreign body in the esophagus, 188

MCNAMARA, J. JUDSON, ERAKLIS, ANGELO J., and GROSS, ROBERT E. Congenital posterolateral diaphragmatic hernia in the newborn, 55

—, MORALES, ANDRES R., PRATER, GUY H., and URSCHEL, HAROLD C., JR. An improved technique for creation of a myocardial tunnel for internal mammary artery implantation, 830

MACVAUGH, HORACE, III. (*See* JOHNSON, SCHEGMAN, and MACVAUGH), 24

MAHONEY, EARLE B. (*See* MAY, CHRISTOPHERSEN, MIDDLEMAN, DEWEESE, and MAHONEY), 340

MAIER, HERBERT C. Discussion of American and British thoracic surgery, 5

MALCOLM, JOHN A. Occurrence of peptic ulcer in colon used for esophageal replacement, 763

MALETTE, WILLIAM G. (*See* BRYANT, CHICKLO, CRUTCHER, DANIELSON, MALETTE, and TRINKLE), 850

MALM, JAMES R. Discussion of tetralogy of Fallot, 78

MANDELBAUM, I., and MORGAN, C. R. Effect of extracorporeal circulation upon insulin, 526

—. (*See* SHUMACKER and MANDELBAUM), 663

MANKIN, HAROLD T. (*See* SILVERMAN, MANKIN, and MCGOON), 264

MANTINI, EMIL L. (*See* IBARRA-PEREZ, GANNON, MANTINI, BONNABEAU, and LILLEHEI), 337

MARTINEZ, L. O. (*See* SMITH, MOBIN-UDDIN, LOMBARDO, MARTINEZ, and JUDE), 127

MASON, GEORGE A. American and British thoracic surgery, 1

MASSUMI, R. A., ADKINS, P. C. REICHELDERFER, T. R., FRAGA, J. R., and SAMPSON, R. Congenital rhabdomyoma of the heart: presentation of 2 cases, 711

MATLOFF, JACK M. (*See* HARKEN, MATLOFF, ZUCKERMAN, and CHAUX), 369

MATSUURA, YUICHIRO (*See* TAGUCHI, SASAKI, MATSUURA, NAKAMURA, TAMURA, and YOSHIZAKI), 800

—. (*See* TAGUCHI, SASAKI, OKII, MATSUURA, and HIRAO), 501

MAY, ALLYN G., CHRISTOPHERSEN, ERLING B., MIDDLEMAN, STANLEY, DEWEESE, JAMES A., and MAHONEY, EARLE B. Hemodynamic effects of pulmonary arterial stenosis in experimental ventricular septal defects, 340

MEYER, THOMAS (*See* BERNHARDT, MEYER, and YOUNG), 758

MEYERS, A. (*See* ANKENEY, LEVERETT, MEYERS, RENNER, and BEHELER), 288

MIDDLEMAN, STANLEY (*See* MAY, CHRISTOPHERSEN, MIDDLEMAN, DEWEESE, and MAHONEY), 340

MILLER, GEORGE E., JR., ÅBERG, TORKEL, H. J., and GERBODE, FRANK. Effect of pulmonary vein ligation on pulmonary artery flow in dogs, 668

—. (*See* DEAL, OSBORN, MILLER, and GERBODE), 320

MILLOY, FRANK (*See* AHMADI, FABER, MILLOY, and JENSIK), 677

MOBIN-UDDIN, KAZI, SMITH, PRENTISS E., LOMBARDO, CARLOS, and JUDE, JAMES R. Local anesthesia for insertion of epicardial electrodes, 112

—. (*See* SMITH, MOBIN-UDDIN, LOMBARDO, MARTINEZ, and JUDE), 127

MOORE, WILLIAM R., and SCANNELL, J. GORDON. Pulmonary actinomycosis simulating cancer of the lung, 193

MORALES, ANDRES R. (*See* MCNAMARA, MORALES, PRATER, and URSCHEL), 830

MORGAN, C. R. (*See* MANDELBAUM and MORGAN), 526

MORRIS, J. D. (*See* MCLAUGHLIN, MORRIS, and HAIGHT), 188

MOSCARELLA, ALFRED A., and WYLIE, ROBERT H. Congenital communication between the esophagus and isolated ectopic pulmonary tissue, 672

MOSS, A. J. (*See* MULDER, KATZ, MOSS, and HURWITZ), 786

MOULOPOULOS, SPYRIDON D., DARSINOS, JOHN TH., ELIAS, CONSTANTINOS I., CHRONIS, NICHOLAOS, and PISTEVOS, ANASTASIOS C. Observations made during experimental pumping into the left heart cavities and aorta, 518

MULDER, D. G., KATZ, R. D., MOSS, A. J., and HURWITZ, R. A. The surgical treatment of congenital aortic stenosis, 786

MULLIKEN, JOHN B., and GRILLO, HERMES C. The limits of treacheal resection with primary anastomosis: further anatomical studies in man, 418

MUSTARD, W. T. (*See* TRUSLER, MUSTARD, and KEITH), 105

N

NAKADA, TASUKU (*See* SUZUKI, NAKADA, WATANABE, FUJIMURA, and KAWAKAMI), 200

NAKAMURA, SHUNGO (*See* TAGUCHI, SASAKI, MATSUURA, NAKAMURA, TAMURA, and YOSHIZAKI), 800

NELSON, RUSSELL M., JENSON, CONRAD B., HORSLEY, BRENT L., and ERSCHLER, IRVING. Idiopathic retroperitoneal fibrosis producing distal esophageal obstruction, 216

NEUHAUS, HERBERT, and CHERNIACK, NEIL S. A bronchospirometric method of estimating the effect of pneumonectomy on the maximum breathing capacity, 144

NEVILLE, WILLIAM E. (*See* HIRSCH and NEVILLE), 211

NEYAZAKI, TOSHIHIKO (*See* IKEDA, NEYAZAKI, CHIBA, YONETI, and SUZUKI), 642

NICHOLS, ROBERT T. (*See* GREENFIELD, PEARCE, and NICHOLS), 160

NICKS, ROWAN. Traumatic ventricular septal defect with septicemia maintained by foreign body suture: case report of successful treatment, 725

O

OKII, YOICHI (*See* TAGUCHI, SASAKI, OKII, MATSUURA, and HIRAO), 501

OLSEN, ARTHUR M. Discussion of hiatal hernia, 401

OLSZEWSKI, WALTER (*See* TAKITA, OLSZEWSKI, SCHIMERT, and LANPHIER), 682

ONGLEY, PATRICK A., (*See* KISER, ONGLEY, KIRKLIN, CLARKSON, and MCGOON), 6

—. (*See* RASTELLI, ONGLEY, KIRKLIN, and MCGOON), 299

—. (*See* RASTELLI, RAHIMTOOLA, ONGLEY, and MCGOON), 834

OSBORN, JOHN J. (*See* DEAL, OSBORN, MILLER, and GERBODE), 320

OVENFORS, CARL-OLOF (*See* GILBERT, BERGLUND, DAHLGREN, OVENFORS, and BARNES), 565

P

PADULA, RICHARD T. (*See* CAMISHION, PADULA, KELSEY, and PIERUCCI), 698

PANGAN, JOSE (*See* GARZON, CHENG, PANGAN, and KARLSON), 546

PARKER, EDWARD F., IKEDA, SADAO, and VUCINIC, MIHAILO. The effects of right atriotomy and ventriculotomy upon right ventricular function, 88

PATTERSON, LEWIS T., SCHMITT, HENRY J., JR., and ARMSTRONG, RAYMOND G. Intermediate care of war wounds of the chest, 16, 23

PEARCE, HENRY J. (*See* GREENFIELD, PEARCE, and NICHOLS), 160

PEARSON, F. G. An evaluation of mediastinoscopy in the management of presumably operable bronchial carcinoma, 617

—, HENDERSON, R. D., GROSS, A. E., GINSBERG, R. J., and STONE, R. M. The reconstruction of circumferential tracheal defects with a porous prosthesis: an experimental and clinical study using heavy Marlex mesh, 605

PECORA, DAVID V. Discussion of iatrogenic perforation of esophagus, 29

PERRY, JOHN F., JR. Discussion of war wounds, 21

PIERUCCI, LOUIS, JR. (*See* CAMISHION, PADULA, KELSEY, and PIERUCCI), 698

PIFARRÉ, ROQUE, WILSON, STEPHEN M., and HUFNAGEL, CHARLES A. The influence of oxygen and helium upon ventricular fibrillation: a preliminary report, 535

—, —, LAROSSA, DONATO D., and HUFNAGEL, CHARLES A. Myocardial revascularization: arterial and venous implants, 309

PISTEVOS, ANASTASIOS C. (*See* MOULOPOULOS, DARSINOS, ELIAS, CHRONIS, and PISTEVOS), 518

PONTIUS, ROBERT G. Discussion of tricuspid atresia, 67

PORTER, JOHN M., and CHEEK, JOHN M. Pleural mesothelioma: review of tumor histogenesis and report of 12 cases, 882

PRATER, GUY H. (*See* MCNAMARA, MORALES, PRATER, and URSCHEL), 830

PROCTOR, R. L. (*See* EDMARK, PROCTOR, THOMAS, and JONES), 741

Q

QUATTLEBAUM, FRANK W., KALKE, BHAGAVANT, EDWARDS, JESSE E., and LILLEHEI, C. WALTON. Obstruction of the aorta by prosthetic aortic valve, 231

R

RAHIMTOOLA, SHAHBUDIN H. (*See* RASTELLI, RAHIMTOOLA, ONGLEY, and MCGOON), 834

RAKUSAN, KAREL (*See* TSCHOPP, RAKUSAN, GUDBJARNASON, and BING), 466

RAMSEY, HOWARD W. (*See* LINHART, DE LA TORRE, RAMSEY, and WHEAT), 811

RANDOLPH, JUDSON G. (*See* LILLY and RANDOLPH), 42, 54

RASTELLI, G. C., HOEKSEMA, TAMMO D., MCGOON, DWIGHT C., and KIRKLIN, JOHN W. Experimental study and clinical appraisal of external defibrillation with the thorax open, 116

—, ONGLEY, PATRICK A., KIRKLIN, JOHN W., and MCGOON, DWIGHT C. Surgical repair of the complete form of persistent common atrioventircular canal, 299

—, RAHIMTOOLA, SHAHBUDIN H., ONGLEY, PATRICK A., and MCGOON, DWIGHT C. Common atrium: anatomy, hemodynamics, and surgery, 834

RATLIFF, JACK L. Extracorporeal biologic oxygenation for prolonged total respiratory support, 686

REDINGTON, JOHN V. (*See* TSUJI, REDINGTON, and KAY), 746

REDO, S. FRANK (*See* KIVELITZ and REDO), 820

REHMAN, IRVING (*See* GETZEN, REHMAN, and HOLLOWAY), 169

REICHELDERFER, T. R. (*See* MASSUMI, ADKINS, REICHELDERFER, FRAGA, and SAMPSON), 711

RENNER, DANIEL (*See* ANKENEY, LEVERETT, MEYERS, RENNER, and BEHELER), 288

REPPERT, EDMUND H. (*See* WALLSH, REPPERT, DOYLE, and SPENCER), 333

RESSALLAT, MEHDI M. (*See* SIRAK and RESSALLAT), 493

RITTENHOUSE, EDWARD A. (*See* BARNER, RITTENHOUSE, and WILLMAN), 773

ROBICSEK, FRANCIS. Discussion of tricuspid atresia, 69

S

SABISTON, DAVID C., JR. (*See* WOLFE and SABISTON), 149

SALKIN, DAVID (*See* GOLDING, STEELE, and SALKIN), 891

SAMPSON, R. (*See* MASSUMI, ADKINS, REICHELDERFER, FRAGA, and SAMPSON), 711

SASAKI, NOBORU (*See* TAGUCHI, SASAKI, MATSUURA, NAKAMURA, TAMURA, and YOSHIZAKI), 800

—. (*See* TAGUCHI, SASAKI, OKII, MATSUURA, and HIRAO), 501

SCANNELL, J. GORDON (*See* MOORE and SCANNELL), 193

SCHENK, WORTHINGTON G., JR. (*See* BURNS and SCHENK), 572

—. (*See* HOPKINSON, BORDER, and SCHENK), 580

SCHIMERT, GEORGE (*See* TAKITA, OLSZEWSKI, SCHIMERT, and LANPHIER), 682

SCHMIDT, VÍCTOR ZERBINO (*See* DI BELLO, CAT, and SCHMIDT), 859

SCHMITT, HENRY J., JR. (*See* PATTERSON, SCHMITT, and ARMSTRONG), 16

SCHNORRER, MILAN (*See* SILVAY, ŠUJANSKÝ, SCHNORRER, HRUBIŠKOVÁ, SLEZÁK, GABAUER, and STYK), 350

SCHORR, ROBERT T. (*See* GRAY, SCHORR, and HEILBRONN), 389

SCHWEGMAN, CLETUS W. (*See* JOHNSON, SCHWEGMAN, and MACVAUGH), 24

SELLERS, ROBERT D. (*See* LILLEHEI, BONNABEAU, and SELLERS), 94

SHERWOOD, CHARLES E. (*See* EMERSON, EMERSON, SHERWOOD, and TERRY), 225

SHORE, JACK (*See* DEAL, SHORE, KERTH, and GERBODE), 359

SHUMACKER, HARRIS B, JR., and HERENDEEN, THOMAS L. Hemolytic anemia after repair of ostium primum septal defect and cleft mitral valve: surgical correction, 489

— and MANDELBAUM, ISIDORE. Prosthetic grafts for replacement of the pulmonary artery, 663

SILVAY, JURAJ, ŠUJANSKÝ, EDUARD, SCHNORRER, MILAN, HRUBIŠKOVÁ, KLÁRA, SLEZÁK, JÁN, GABAUER, IVAN, and STYK, JAN. The use of gelatinous priming solution for extracorporeal circulation, 350

SILVER, ARTHUR W. (*See* LEVINE, BAO, and SILVER), 732

SILVERMAN, LOUIS F., MANKIN, HAROLD T., and MCGOON, DWIGHT C. Surgical treatment of an inadequate sinus mechanism by implantation of a right atrial pacemaker electrode, 264

SIRAK, HOWARD D., and RESSALLAT, MEHDI M. Surgical correction of mitral insufficiency in Marfan's syndrome: late follow-up results in 2 cases, 493

SLEZÁK, JÁN (*See* SILVAY, ŠUJANSKÝ, SCHNORRER, HRUBIŠKOVÁ, SLEZÁK, GABAUER, and STYK), 350

SMITH, PRENTISS E., MOBIN-UDDIN, K., LOMBARDO, C. R., MARTINEZ, L. O., and JUDE, J. R. Implantation of the internal mammary artery: current concepts and description of a new method, 127

—. (*See* MOBIN-UDDIN, SMITH, LOMBARDO, and JUDE), 112

SMYTH, NICHOLAS P. D., BOIVIN, MICHAEL R., and BACOS, JAMES M. Transjugular removal of foreign body from the right atrium by endoscopic forceps, 594

SPENCER, FRANK C. (*See* WALLSH, REPPERT, DOYLE, and SPENCER), 333

STARR, ALBERT (*See* FRIESEN, WOODSON, AMES, HERR, STARR, and KASSEBAUM), 271

STEELE, JOHN D. (*See* GOLDING, STEELE, and SALKIN), 891

STONE, R. M. (*See* PEARSON, HENDERSON, GROSS, GINSBERG, and STONE), 605

STYK, JAN (*See* SILVAY, ŠUJANSKÝ, SCHNORRER, HRUBIŠKOVÁ, SLEZÁK, GABAUER, and STYK), 350

ŠUJANSKÝ, EDUARD (*See* SILVAY, ŠUJANSKÝ, SCHNORRER, HRUBIŠKOVÁ, SLEZÁK, GABAUER, AND STYK), 350

SUZUKI, CHIGASHI, NAKADA, TASUKU, WATANABE, AKIRA, FUJIMURA, SHIGEFUMI, and KAWAKAMI, MINORU. Experimental studies of canine lung allotransplantation: the effect of cytotoxic agents and donor spleen cells for immunosuppressive treatment, 200

—. (*See* IKEDA, NEYAZAKI, CHIBA, YONETI, and SUZUKI), 642

SVITEK, VICTOR (*See* ASHMORE, SVITEK, and AMBROSE), 691

SWEETMAN, WILLIAM R. (*See* LEAFSTEDT, SWEETMAN, CHESTER, and THORPE), 626

T

TAGUCHI, KAZUMI, SASAKI, NOBORU, MATSUURA, YUICHIRO, NAKAMURA, SHUNGO, TAMURA, MUTSUO, and YOSHIZAKI, EIICHIRO. The use of valve prostheses in congenital heart diseases in children and adolescents: a preliminary report of 29 cases, 800

—, —, OKII, YOICHI, MATSUURA, YUICHIRO, and HIRAO, MASARU. Surgical experience with persistent common atrioventricular canal in a series of 82 patients: particular consideration on correction of valve incompetence and deficiency of ventricular septum, 501

TAKITA, HIROSHI, OLSZEWSKI, WALTER, SCHIMERT, GEORGE, and LANPHIER, EDWARD H. Hyperbaric treatment of cerebral air embolism as a result of open-heart surgery, 682

TALWAR, JANAK (*See* DANIELSON, COOPER, TALWAR, IFUKU, and BRYANT), 842

TAMURA, MUTSUO (*See* TAGUCHI, SASAKI, MATSUURA, NAKAMURA, TAMURA, and YOSHIZAKI), 800

TARLOV, EDWARD, and GREENFIELD, LAZAR J. Post-traumatic aortic arch aneurysm with arteriovenous fistula to the innominate vein, 134

TERRY, ROGER (*See* EMERSON, EMERSON, SHERWOOD, and TERRY), 225

THOMAS, G. I. (*See* EDMARK, PROCTOR, THOMAS, and JONES), 741

THOMAS, PAUL A., and JOLLY, PHILIP C. Preservation of pulmonary surfactant activity in canine lung allografts by immune suppressive therapy, 405

THOMAS, THOMAS V. Nonparalytic eventration of the diaphragm, 586

THORPE, JOHN D. (*See* LEAFSTEDT, SWEETMAN, CHESTER, and THORPE), 626

TITUS, JACK L. (*See* GEHA, MCGOON, and TITUS), 479

TOTH, LOUIS A. (*See* HARRIS, TOTH, and BOCAGE), 361

TRINKLE, J. KENT. (*See* BRYANT, CHICKLO, CRUTCHER, DANIELSON, MALETTE, and TRINKLE), 850

TRUSLER, G. A., MUSTARD, W. T., and KEITH, J. D. The role of pacemaker therapy in congenital complete heart block: report of 3 cases, 105

—. Discussion of tricuspid atresia, 68

TSCHOPP, HANS M., RAKUSAN, KAREL, GUDBJARNASON, SIGMUNDUR, and BING, RICHARD J. Physiologic studies on revascularization of the dog heart, 466

TSUJI, HAROLD K., REDINGTON, JOHN V., and KAY, JEROME HAROLD. Vertebral arteriovenous fistula, 746

U

URSCHEL, HAROLD C., JR. (*See* MCNAMARA, MORALES, PRATER, and URSCHEL), 830

V

VALDES, LUIS G., and KILLEN, DUNCAN A. Thoracic duct cannulation in the dog: a study of thrombotic occlusion of indwelling cannulas, 555

—. (*See* KILLEN and VALDES), 178

VASKO, JOHN S., and KILMAN, JAMES W. The intraoperative evaluation of aortic homograft valve function, 141

VERSKA, JOSEPH J., and CONNOLLY, JOHN E. Bronchial adenomas in children, 411

VON LICHTENBERG, FRANZ (*See* DEKKER, BLACK, and VON LICHTENBERG), 434

VUCINIC, MIHAILO (*See* PARKER, IKEDA, and VUCINIC), 88

W

WALLSH, EUGENE, REPPERT, EDMUND H., DOYLE, EUGENIE F., and SPENCER, FRANK C. "Absent" left pulmonary artery with tetralogy of Fallot, 333

WALTUCH, THEODORE L. (*See* CRUTCHER, WALTUCH, and GHOSH), 422

WATANABE, AKIRA (*See* SUZUKI, NAKADA, WATANABE, FUJIMURA, and KAWAKAMI), 200

WATERMAN, DAVID H. Discussion of war wounds, 22

WEBB, WATTS R. (*See* COX and WEBB), 603

—. (*See* GERSONY, WILLERSON, JOHNSON, and WEBB), 598

WELSH, PATRICIO, and IRAOLA, LADISLAO. Concomitant aneurysms of the thoracic and abdominal aorta: surgical correction in one stage, 486

WHEAT, MYRON W., JR. (*See* LINHART, DE LA TORRE, RAMSEY, and WHEAT), 811

WHITE, JAMES (*See* YOUMANS, WHITE, and DERRICK), 383

WHITE, JOHN J., KABACK, MICHAEL M., and HALLER, J. ALEX., JR. Diagnosis and excision of an intrapericardial teratoma in an infant, 704

WILLERSON, W. DARRELL, JR. (*See* GERSONY, WILLERSON, JOHNSON, and WEBB), 598

WILLMAN, VALLEE L. (*See* BARNER, RITTENHOUSE, and WILLMAN), 773

WILSON, STEPHEN M. (*See* PIFARRÉ, WILSON, and HUFNAGEL), 535

—. (*See* PIFARRÉ, WILSON, LAROSSA, and HUFNAGEL), 309

WOLFE, WALTER G., and SABISTON, DAVID C., JR. Radioactive ventilation scanning in the diagnosis of pulmonary embolism, 149

WOODSON, R. DONALD (*See* FRIESEN, WOODSON, AMES, HERR, STARR, and KASSEBAUM), 271

WRIGHT, J. S., FREEMAN, R., and JOHNSTON, J. B. Aorto-pulmonary fenestration: a technique of surgical management, 280

WYLIE, ROBERT H. (*See* MOSCARELLA and WYLIE), 672

Y

YONETI, MINORU (*See* IKEDA, NEYAZAKI, CHIBA, YONETI, and SUZUKI), 642

YOUMANS, C. ROGER, JR., WHITE, JAMES, and DERRICK, JOHN R. The prevention of pleural and pericardial adhesions with Silastic, 383

YOUNG, WILLIAM P. (*See* BERNHARDT, MEYER, and YOUNG), 758

YOSHIZAKI, EIICHIRO (*See* TAGUCHI, SASAKI, MATSUURA, NAKAMURA, TAMURA, and YOSHIZAKI), 800

Z

ZBORALSKE, F. FRANK (*See* GRIMES and ZBORALSKE), 30

ZUCKERMAN, WALTER (*See* HARKEN, MATLOFF, ZUCKERMAN, and CHAUX), 369

Subject index*

A

"Absent" left pulmonary artery with tetralogy of Fallot (Wallsh et al.), 333

ACD-preserved blood for cardiopulmonary bypass, correction of metabolic acidosis associated with use of (Killen and Valdes), 178

Acidosis, metabolic, associated with use of ACD-preserved blood for cardiopulmonary bypass, correction of (Killen and Valdes), 178

respiratory, acute, complicating status asthmaticus, treatment of (Gregory et al), 426

Actinomycosis, pulmonary, simulating cancer of lung (Moore and Scannell), 193

Adenomas, bronchial, in children (Verska and Connolly), 411

Adhesions, pleural and pericardial, with Silastic, prevention of (Youmans et al.), 383

Aggregation, particulate, and microembolism in pump-oxygenator systems, incidence and effects of (Ashmore et al.), 691

Air embolism, cerebral, as a result of open-heart surgery, hyperbaric treatment of (Takita et al.), 682

repeated, preparation involving: experimental pulmonary hypertension in dog (Gilbert et al.), 565

Allografts, lung, canine, by immune suppressive therapy, preservation of pulmonary surfactant activity in (Thomas and Jolly), 405

Allotransplantation, lung, canine, experimental studies of (Suzuki et al.), 200

American and British thoracic surgery (Mason), 1

American Association for Thoracic Surgery: Program of 1968 Annual Meeting, 452

Anastomosis, atrial, left, in pulmonary reimplantation and transplantation, angiographic demonstration of (Flaherty et al.), 797

coronary, rapid, new approach to: onlay graft without intimal approximation (Davies et al.), 284

primary, limits of tracheal resection with (Mulliken and Grillo), 418

Anemia, hemolytic, after repair of ostium primum septal defect and cleft mitral valve (Shumacker and Herendeen), 489

Anemia, hemolytic—Cont'd

due to recurrent aortic insufficiency: aortic valvuloplasty during acute rheumatic fever (Gersony et al.), 598

Anesthesia, local, for insertion of epicardial electrodes (Mobin-Uddin et al.), 112

or regional, for "salvage" cardiac patient, cannulation under (Danielson et al.), 864

Aneurysm(s), aortic arch, post-traumatic, with arteriovenous fistula to innominate vein (Tarlov and Greenfield), 134

concomitant, of thoracic and abdominal aorta (Welsh and Iraola), 486

post-stenotic, in a 63-year-old woman, repair of aortic coarctation and (Levine et al.), 732

Angiographic demonstration of left atrial anastomosis in pulmonary reimplantation and transplantation (Flaherty et al.), 797

Angiography in giant cystic disease of lung (Chavez et al.), 638

Anomalous drainage of inferior vena cava into left atrium (Gautam), 827

Aorta, abdominal and thoracic, concomitant aneurysms of (Welsh and Iraola), 486

and celiac artery, congenital diaphragmatic obstruction of (Fadhli), 431

observations made during experimental pumping into left heart cavities and (Moulopoulos et al.), 518

by prosthetic aortic valve, obstruction of (Quattlebaum et al.), 231

Aortic arch aneurysm, post-traumatic, with arteriovenous fistula to innominate vein (Tarlov and Greenfield), 134

coarctation and post-stenotic aneurysm in 63-year-old woman, repair of (Levine et al.), 732

homograft valve function, intraoperative evaluation of (Vasko and Kilman), 141

insufficiency, recurrent, hemolytic anemia due to: aortic valvuloplasty during acute rheumatic fever (Gersony et al.), 598

pulse, natural, with external pump-induced pulse, factors in coordination of (Harris et al.), 361

stenosis, congenital, surgical treatment of (Mulder et al.), 786

valve, clinical use of heterografts for replacement of (Binet et al.), 238

insufficiency, acute, as result of bullet wound (Cleveland et al.), 123

*January, pp. 1-148; February, pp. 149-298; March, pp. 299-456; April, pp. 457-604; May, pp. 605-762; June, pp. 763-916.

Aortic valve—Cont'd
prosthetic, obstruction of aorta by (Quattlebaum et al.), 231
replacement, significance of coronary artery disease in (Linhart et al.), 811
Aorto-pulmonary fenestration: technique of surgical management (Wright et al.), 280
Arterial and venous implants: myocardial revascularization (Pifarré et al.), 309
Arteries, coronary, in calves, effect of perfusion on (Geha et al.), 479
Arteriovenous fistula, vertebral (Tsuji et al.), 746
Artery, pulmonary, prosthetic grafts for replacement of (Shumacker and Mandelbaum), 663
Atresia, tricuspid, in infancy and childhood, superiority of Glenn operation for (Edwards and Bargeron), 60
Atrial replacement with prosthetic materials, cardiac growth following (Danielson et al.), 842
septal defect, left atrial inferior vena cava with (Gautam), 827
and ventricular pacing in postoperative cardiac surgical patients, hemodynamic comparison of (Friesen et al.), 271
Atriotomy, right, and ventriculotomy upon right ventricular function, effects of (Parker et al.), 88
Atrioventricular canal, common, persistent, in series of 82 patients, surgical experience with (Taguchi et al.), 501
surgical repair of complete form of (Rastelli et al.), 299
Atrium, common: anatomy, hemodynamics, and surgery (Rastelli et al.), 834
left, totally calcified, surgical approach to (Camishion et al.), 698
right, by endoscopic forceps, transjugular removal of foreign body from (Smyth et al.), 594
Autologous pericardium, experimental approach to mitral valve replacement with (Holdefer et al.), 873
Azygography, intraosseous (Gray et al.), 389

B

Benign and malignant tumors of esophagus at autopsy (Attah and Hajdu), 396
Bifid sternum: surgical management (Bernhardt et al.), 758
Biologic oxygenation, extracorporeal, for prolonged total respiratory support (Ratliff), 686
Blood, ACD-preserved, for cardiopulmonary bypass, correction of metabolic acidosis associated with use of (Killen and Valdes), 178
Blood—Cont'd
flow in stenotic arteries, effect of hemorrhage and dextran infusion on (Burns and Schenk), 572
human, studies of porcine lung as oxygenator for (Bryant et al.), 255
reaction, homologous, in dogs, role of liver in (Ankeney et al.), 288
Breathing assisted, extrathoracic, evaluated by cinefluorography (Getzen et al.), 169
capacity, maximum, bronchospirometic method of estimating effect of pneumonectomy on (Neuhaus and Cherniack), 144
British and American thoracic surgery (Mason), 1
Bronchial adenomas in children (Verska and Connolly), 411
carcinoma, presumably operable, evaluation of mediastinoscopy in management of (Pearson), 617
lipoma (Crutcher et al.), 422
vascular pattern of various pulmonary diseases, with emphasis on its diagnostic value in pulmonary cancer (Ikeda et al.), 642
Bronchogenic carcinoma, spontaneous regression of (Emerson et al.), 225
Bronchospirometric method of estimating effect of pneumonectomy on maximum breathing capacity (Neuhaus and Cherniack), 144
Bullae, large, in severe generalized emphysema, external drainage of (Golding et al.), 891
Bullet wound, acute aortic valve insufficiency as result of (Cleveland et al.), 123
Bypass, cardiopulmonary, correction of metabolic acidosis associated with use of ACD-preserved blood for (Killen and Valdes), 178
pulmonary compliance in congenital heart disease and its relation to (Deal et al.), 320
carotid-subclavian, for "subclavian steal syndrome" (Barner et al.), 773

C

Calcified left atrium, surgical approach to (Camishion et al.), 698
Calcium embolism in open-heart surgery, instrument to prevent (Ibrarra-Perez et al.), 337
Canal, atrioventricular, common, persistent, in series of 82 patients, surgical experience with (Taguchi et al.), 501
Cancer of lung, pulmonary actinomycosis simulating (Moore and Scannell), 193

Cancer—Cont'd
pulmonary, with emphasis on its diagnostic value in: bronchial vascular pattern of various pulmonary diseases (Ikeda et al.), 642
Cannulas, indwelling, a study of thrombotic occlusion of (Valdes and Killen), 555
Cannulation, duct, thoracic, in dog (Valdes and Killen), 555
under local or regional anesthesia for "salvage" cardiac patient (Danielson et al.), 864
Carcinoma in association with hiatal hernia (Grimes and Zboralske), 30
bronchial, presumably operable, evaluation of mediastinoscopy in management of (Pearson), 617
bronchogenic, spontaneous regression of (Emerson et al.), 225
Carcinosarcoma of lung (Jenkins), 657
Cardiac defects associated with variations in cardiac position, surgical treatment of (Billig et al.), 80
growth following atrial replacement with prosthetic materials (Danielson et al.), 842
position, surgical treatment of cardiac defects associated with variations in (Billig et al.), 80
transplantation, human (De Bakey), 447 (Edit.)
Cardiopulmonary bypass, pulmonary compliance in congenital heart disease and its relation to (Deal et al.), 320
Cardiovascular responses to diastolic augmentation in intact canine circulation and after ligation of anterior descending coronary artery (Goldfarb et al.), 243
Carotid-subclavian bypass for "subclavian steal syndrome" (Barner et al.), 773
Celiac artery and aorta, congenital diaphragmatic obstruction of (Fadhli), 431
Cerebral air embolism as result of open-heart surgery, hyperbaric treatment of (Takita et al.), 682
Chest, intermediate care of war wounds of (Patterson et al.), 16
trauma, closed, experimental (Hopkinson et al.), 580
Child, young, correction of tetralogy of Fallot in (Dobell et al.), 70
Children, bronchial adenomas in (Verska and Connolly), 411
Chronic hydatid pericarditis with effusion (Di Bello et al.), 859
Cinefluorography, extrathoracic assisted breathing evaluated by (Getzen et al.), 169
Circulation, canine, intact, and after ligation of anterior descending coronary artery, cardiovascular responses to diastolic augmentation in (Goldfarb et al.), 243
Circulation—Cont'd
extracorporeal, use of gelatinous priming solution for (Silvay et al.), 350
upon insulin, effect of (Mandelbaum and Morgan), 526
Closed chest trauma, experimental (Hopkinson et al.), 580
Coarctation, aortic, and post-stenotic aneurysm in 63-year-old woman, repair of (Levine et al.), 732
Colon used for esophageal replacement, occurrence of peptic ulcer in (Malcolm), 763
Common atrium: anatomy, hemodynamics, and surgery (Rastelli et al.), 834
Competency of gastroesophageal junction, test for (Cox and Webb), 603
Concomitant aneurysms of thoracic and abdominal aorta (Welsh et al.), 486
Congenital aortic stenosis, surgical treatment of (Mulder et al.), 786
communication between esophagus and isolated ectopic pulmonary tissue (Moscarella and Wylie), 672
complete heart block, pacemaker therapy in (Trusler et al.), 105
diaphragmatic obstruction of aorta and celiac artery (Fadhli), 431
heart diseases in children and adolescents, use of valve prostheses in (Taguchi et al.), 800
and its relation to cardiopulmonary bypass, pulmonary compliance in (Deal et al.), 320
posterolateral diaphragmatic hernia in newborn (McNamara et al.), 55
rhabdomyoma of heart (Massumi et al.), 711
Coordination of natural aortic pulse with external pump-induced pulse, factors in (Harris et al.), 361
Coronary anastomosis, rapid, new approach to: onlay graft without intimal approximation (Davies et al.), 284
arteries in calves, effect of perfusion on (Geha et al.), 479
artery, descending, anterior, cardiovascular responses to diastolic augmentation in intact canine circulation and after ligation of (Goldfarb et al.), 243
disease in aortic valve replacement, significance of (Linhart et al.), 811
Correction of tetralogy of Fallot in young child (Dobell et al.), 70
Cystic disease, giant, of lung, angiography in (Chavez et al.), 638
Cytotoxic agents and donor spleen cells for immunosuppressive treatment, effect of: studies of canine lung allotransplantation (Suzuki et al.), 200

D

DC defibrillator failure (Edmark et al.), 741
Defibrillation, external, with thorax open, experimental study and clinical appraisal of (Rastelli et al.), 116
Defibrillator, DC, failure (Edmark et al.), 741
Dextran infusion and hemorrhage on blood flow in stenotic arteries, effect of (Burns and Schenk), 572
Dextrocardia with inversion of ventricles and double-outlet right ventricle, surgical treatment of (Kiser et al.), 6
mirror image: surgical treatment of cardiac defects associated with variations in cardiac position (Billig et al.), 80
Dextroversion: surgical treatment of cardiac defects associated with variations in cardiac position (Billig et al.), 80
Diaphragm, nonparalytic eventration of (Thomas), 586
Diaphragmatic hernia, posterolateral, congenital, in newborn (McNamara et al.), 55
obstruction, congenital, of aorta and celiac artery (Fadhli), 431
Diastolic augmentation in intact canine circulation and after ligation of anterior descending coronary artery, cardiovascular responses to (Goldfarb et al.), 243
Double internal mammary artery implants (Favaloro), 457
Double-outlet right ventricle, surgical treatment of dextrocardia with inversion and ventricles and (Kiser et al.), 6
Drainage, external, of large bullae in severe generalized emphysema (Golding et al.), 891

E

Ectopic pulmonary tissue, isolated, congenital communication between esophagus and (Moscarella and Wylie), 672
Editorials
Human cardiac transplantation (De Bakey), 447
Management of spontaneous pneumothorax (Clagett), 761
Effusion, chronic hydatid pericarditis with (Di Bello et al.), 859
Electrode(s), epicardial, local anesthesia for insertion of (Mobin-Uddin et al.), 112
pacemaker, atrial, right, surgical treatment of inadequate sinus mechanism by implantation of (Silverman et al.), 264
endocardial, retained (Furman and Escher), 737
Embolectomy, pulmonary, experimental, recovery of respiratory function and lung mechanics following (Greenfield et al.), 160
Embolism, air, cerebral, as result of open-heart surgery, hyperbaric treatment of (Takita et al.), 682
repeated, preparation involving: experimental pulmonary hypertension in dog (Gilbert et al.), 565
calcium, in open-heart surgery, instrument to prevent (Ibarra-Perez et al.), 337
pulmonary, radioactive ventilation scanning in diagnosis of (Wolfe and Sabiston), 149
Emphysema, generalized, severe, external drainage of large bullae in (Golding et al.), 891
Empyema, post-pneumonectomy: single-stage operative treatment (Conklin), 634
thoracic, management of (Bryant et al.), 850
Endocardial pacemaker electrodes, retained (Furman and Escher), 737
Endoscopic forceps, transjugular removal of foreign body from right atrium by (Smyth et al.), 594
Epicardial electrodes, local anesthesia for insertion of (Mobin-Uddin et al.), 112
Esophageal obstruction, distal, idiopathic retroperitoneal fibrosis producing (Nelson et al.), 216
replacement, occurrence of peptic ulcer in colon used for (Malcolm), 763
total, with segment of ileum (Hirsch and Neville), 211
Esophagogastrostomy, early, in treatment of iatrogenic perforation of distal esophagus (Johnson et al.), 24
Esophagus at autopsy, benign and malignant tumors of (Attah and Hajdu), 396
distal, early esophagogastrostomy in treatment of iatrogenic perforation of (Johnson et al.), 24
and isolated ectopic pulmonary tissue, congenital communication between (Moscarella and Wylie), 672
morbid nature of migrating foreign body in (McLaughlin et al.), 188
Eventration, nonparalytic, of diaphragm (Thomas), 586
External defibrillation with thorax open, experimental study and clinical appraisal of (Rastelli et al.), 116
Extracorporeal biologic oxygenation for prolonged total respiratory support (Ratliff), 686
circulation upon insulin, effect of (Mandelbaum and Morgan), 526
use of gelatinous priming solution for (Silvay et al.), 350
Extrathoracic assisted breathing evaluated by cinefluorography (Getzen et al.), 169

F

Failure, debrillator, DC (Edmark et al.), 741

Fallot, tetralogy of, "absent" left pulmonary artery with (Wallsh et al.), 333
in young child, correction of (Dobell et al.), 70
Fenestration aorto-pulmonary: technique of surgical management (Wright et al.), 280
Fibrillation, ventricular, influence of oxygen and helium upon (Pifarré et al.), 535
Fibrosis, retroperitoneal, idiopathic, producing distal esophageal obstruction (Nelson et al.), 216
Fistula, arteriovenous, to innominate vein, posttraumatic aortic arch aneurysm with (Tarlov and Greenfield), 134
vertebral (Tsuji et al.), 746
Flow, artery, pulmonary, in dogs, effect of pulmonary vein ligation (Miller et al.), 668
Foreign body, migrating, in esophagus, morbid nature of (McLaughlin et al.), 188
from right atrium by endoscopic forceps, transjugular removal of (Smyth et al.), 594
suture, traumatic ventricular septal defect with septicemia maintained by (Nicks), 725

G

Gas exchange, alveolar, after implantation of artificial right ventricle, pulmonary hemodynamics and (Kivelitz and Redo), 820
Gastroesophageal junction, test for competency of (Cox and Webb), 603
reflux in infants and children, hiatal hernia and (Lilly and Randolph), 42
Gelatinous priming solution for extracorporeal circulation, use of (Silvay et al.), 350
Glenn operation for tricuspid atresia in infancy and childhhod, superiority of (Edwards and Bargeron), 60
Graft(s), onlay, without intimal approximation: new approach to rapid coronary anastomosis (Davies et al.), 284
prosthetic, for replacement of pulmonary artery (Shumacker and Mandelbaum), 663

H

Heart block, complete, congenital, pacemaker therapy in (Trusler et al.), 105
cavities, left, and aorta, observations made during experimental pumping into (Moulopoulos et al.), 518
congenital, rhabdomyoma of (Massumi et al.), 711
diseases, congenital, in children and adolescents, use of valve prostheses in (Taguchi et al.), 800
Heart disease—Cont'd
congenital, and its relation to cardiopulmonary bypass, pulmonary compliance in (Deal et al.), 320
dog, physiologic studies on revascularization of (Tschopp et al.), 466
Helium and oxygen upon ventricular fibrillation, influence of (Pifarré et al.), 535
Hemodynamic(s) comparison of atrial and ventricular pacing in postoperative cardiac surgical patients (Friesen et al.), 271
effects of pulmonary arterial stenosis in experimental ventricular septal defects (May et al.), 340
pulmonary, and alveolar gas exchange after implantation of an artificial right ventricle (Kivelitz and Redo), 820
studies in open pneumothorax (Carey and Hughes), 538
Hemorrhage and dextran infusion on blood flow in stenotic arteries, effect of (Burns and Schenk), 572
Hernia, diaphragmatic, posterolateral, congenital, in newborn (McNamara et al.), 55
hiatal, carcinoma in association with (Grimes and Zboralske), 30
and gastroesophageal reflux in infants and children (Lilly and Randolph), 42
Heterografts for replacement of aortic valve, clinical use of (Binet et al.), 238
Histogenesis, tumor, review of: pleural mesothelioma (Porter and Cheek), 882
Homograft valve function, aortic, intraoperative evaluation of (Vasko and Kilman), 141
Homologous blood reaction in dogs, role of liver in (Ankeney et al.), 288
Human cardiac transplantation (De Bakey), 447 (Edit.)
Hydatid pericarditis, chronic, with effusion (Di Bello et al.), 859
Hyperbaric treatment of cerebral air embolism as result of open-heart surgery (Takita et al.), 682
Hypertension, pulmonary, experimental, in dog: preparation involving repeated air embolism (Gilbert et al.), 565
Hypothermic hyperbaric lung preservation for 24 hours with replantation (Garzon et al.), 546

I

Iatrogenic perforation of distal esophagus, early esophagogastrostomy in treatment of (Johnson et al.), 24
Idiopathic retroperitoneal fibrosis producing distal esophageal obstruction (Nelson et al.), 216

Ileum, total esophageal replacement with segment of (Hirsch and Neville), 211
Immune suppressive therapy, preservation of pulmonary surfactant activity in canine lung allografts by (Thomas and Jolly), 405
Immunosuppressive treatment, effect of cytotoxic agents and donor spleen cells for: experimental studies of canine lung allotransplantation (Suzuki et al.), 200
Implantation of artificial right ventricle, pulmonary hemodynamics and alveolar gas exchange after (Kivelitz and Redo), 820
of internal mammary artery (Smith et al.), 127
mammary artery, internal, improved technique for creation of myocardial tunnel for (McNamara et al.), 830
of right atrial pacemaker electrode, surgical treatment of inadequate sinus mechanism by (Silverman et al.), 264
Implanted systemic artery, intramuscularly, effect of continuous rhythmic muscular contraction on patency of (Geha and McGoon), 328
Implants, mammary artery, internal, double (Favaloro), 457
venous, arterial and: myocardial revascularization (Pifarré et al.), 309
Infant, diagnosis and excision of intrapericardial teratoma in (White et al.), 704
Innominate vein, post-traumatic aortic arch aneurysm with arteriovenous fistula to (Tarlov and Greenfield), 134
Insertion of epicardial electrodes, local anesthesia for (Mobin-Uddin et al.), 112
Instrument for making substernal and subcutaneous tunnels: substernal tunneller (Lee), 754
to prevent calcium embolism in open-heart surgery (Ibarra-Perez et al.), 337
Insufficiency, mitral, in Marfan's syndrome, surgical correction of (Sirak and Ressallat), 493
valve, aortic, acute, as result of bullet wound (Cleveland et al.), 123
Insulin, effect of extracorporeal circulation upon (Mandelbaum and Morgan), 526
Intermediate care of war wounds of chest (Patterson et al.), 16
Internal mammary artery, implantation of (Smith et al.), 127
Intraoperative evaluation of aortic homograft valve function (Vasko and Kilman), 141
Intraosseous azygography (Gray et al.), 389
Intrapericardial teratoma in infant, diagnosis and excision of (White et al.), 704
Intrathoracic splenosis (Ahmadi et al.), 677
Inversion of ventricles and double-outlet right ventricle, surgical treatment of dextrocardia with (Kiser et al.), 6

L

Lead, connecting, temporary, for transvenous pacemakers (Deal et al.), 350
Levocardia, isolated: surgical treatment of cardiac defects associated with variations in cardiac position (Billig et al.), 80
Levoversion: surgical treatment of cardiac defects associated with variations in cardiac position (Billig et al.), 80
Ligation of anterior descending coronary artery, cardiovascular responses to diastolic augmentation in intact canine circulation and after (Goldfarb et al.), 243
vein, pulmonary, on pulmonary artery flow in dogs, effect of (Miller et al.), 668
Lipoma, bronchial (Crutcher et al.), 422
Liver in homologous blood reaction in dogs, role of (Ankeney et al.), 288
Lung(s) allografts, canine, by immune suppressive therapy, preservation of pulmonary surfactant activity in (Thomas and Jolly), 405
allotransplantation, canine, experimental studies of (Suzuki et al.), 200
angiography in giant cystic disease of (Chavez et al.), 638
carcinosarcoma of (Jenkins), 657
left, reimplanted, pulmonary compliance and functional residual capacity determinations in dogs with (Birch), 196
mechanics following experimental pulmonary embolectomy, recovery of respiratory function and (Greenfield et al.), 160
multiple primary neoplasms of (Leafstedt et al.), 626
porcine, as oxygenator for human blood, studies of (Bryant et al.), 255
preservation, hyperbaric, hypothermic, for 24 hours with replantation (Garzon et al.), 546
pulmonary actinomycosis simulating cancer of (Moore and Scannell), 193
right, complete reduplication of (Brownlee and Dafoe), 653

M

Malignant and benign tumors of esophagus at autopsy (Attah and Hajdu), 396
Mammary artery implantation, internal, improved technique for creation of myocardial tunnel for (McNamara et al.), 830
implants, internal, double (Favaloro), 457
internal, implantation of (Smith et al.), 127
Marfan's syndrome, surgical correction of mitral insufficiency in (Sirak and Ressallat), 493

Marlex mesh, heavy, use of: reconstruction of circumferential tracheal defects with a porous prosthesis (Pearson et al.), 605
Materials, prosthetic, cardiac growth following atrial replacement with (Danielson et al.), 842
Mediastinoscopy in management of presumably operable bronchial carcinoma, evaluation of (Pearson), 617
Mesothelioma, pleural: review of tumor histogenesis and report of 12 cases (Porter and Cheek), 882
primary, of pericardium (Dooley et al.), 719
Metabolic acidosis associated with use of ACD-preserved blood for cardiopulmonary bypass, correction of (Killen and Valdes), 178
Microembolism in pump-oxygenator systems, incidence and effects of particulate aggregation and (Ashmore et al.), 691
Migrating foreign body in esophagus, morbid nature of (McLaughlin et al.), 188
Mitral insufficiency in Marfan's syndrome, surgical correction of (Sirak and Ressallat), 493
stenosis, reoperation for (Aronstam et al.), 783
valve, cleft, hemolytic anemia after repair of ostium primum septal defect and (Shumacker and Herendeen), 489
new (Harken et al.), 369
replacement with autologous pericardium, experimental approach to (Holdefer et al.), 873
restenosis (Dekker et al.), 434
Morbid nature of migrating foreign body in esophagus (McLaughlin et al.), 188
Multiple primary neoplasms of lung (Leafstedt et al.), 626
Muscular contraction, rhythmic, continous, on patency of intramuscularly implanted systemic artery, effect of (Geha and McGoon), 328
Myocardial revascularization: arterial and venous implants (Pifarré et al.), 309
tunnel for internal mammary artery implantation, improved technique for creation of (McNamara et al.), 830

N

Neoplasms, primary, multiple, of lung (Leafstedt et al.), 626
New mitral valve (Harken et al.), 369
Newborn, congenital posterolateral diaphragmatic hernia in (McNamara et al.), 55
Nonparalytic eventration of diaphragm (Thomas), 586

O

Obstruction of aorta by prosthetic aortic valve (Quattlebaum et al.), 231
Obstruction—Cont'd
diaphragmatic, congenital, of aorta and celiac artery (Fadhli), 431
esophageal, distal, idiopathic retroperitoneal fibrosis producing (Nelson et al.), 216
Occlusion, thrombotic, of indwelling cannulas, study of (Valdes and Killen), 555
Onlay graft without intimal approximation: new approach to rapid coronary anastomosis (Davies et al.), 284
Open-heart surgery, hyperbaric treatment of cerebral air embolism as result of (Takita et al.), 682
instrument to prevent calcium embolism in (Ibarra-Perez et al.), 337
Ostium primum septal defect and cleft mitral valve, hemolytic anemia after repair of (Shumacker and Herendeen), 489
Oxygen and helium upon ventricular fibrillation, influence of (Pifarré et al.), 535
Oxygenation, biologic, extracorporeal, for prolonged total respiratory support (Ratliff), 686
Oxygenator, for human blood, studies of porcine lung as (Bryant et al.), 255

P

Pacemaker electrode, atrial, right, surgical treatment of inadequate sinus mechanism by implantation of (Silverman et al.), 264
endocardial, retained (Furman and Escher), 737
therapy in congenital complete heart block (Trusler et al.), 105
transvenous, temporary connecting lead for (Deal et al.), 359
Pacing, atrial and ventricular, in postoperative cardiac surgical patients, hemodynamic comparison of (Friesen et al.), 271
Particulate aggregation and embolism in pump-oxygenator systems, incidence and effects of (Ashmore et al.), 691
Patency of intramuscularly implanted systemic artery, effect of continous rhythmic muscular contraction on (Geha and McGoon), 328
Pathologic study of mitral valve restenosis (Dekker et al.), 434
Peptic ulcer in colon used for esophageal replacement, occurrence of (Malcolm), 763
Perforation, iatrogenic, of distal esophagus, early esophagogastrostomy in treatment of (Johnson et al.), 24
Perfusion on coronary arteries in calves, effect of (Geha et al.), 479
Pericardial adhesions with Silastic, prevention of pleural and (Youmans et al.), 383

Pericarditis, hydatid, chronic, with effusion (Di Bello et al.), 859
Pericardium, autologous, experimental approach to mitral valve replacement with (Holdefer et al.), 873
primary mesothelioma of (Dooley et al.), 719
Persistent common atrioventricular canal in series of 82 patients, surgical experience with (Taguchi et al.), 501
surgical repair of complete form of (Rastelli et al.), 299
Physiologic studies on revascularization of dog heart (Tschopp et al.), 466
Pleural mesothelioma: review of tumor histogenesis and report of 12 cases (Porter and Cheek), 882
and pericardial adhesions with Silastic, prevention of (Youmans et al.), 383
Pneumonectomy on maximum breathing capacity, bronchospirometric method of estimating effect of (Neuhaus and Cherniack), 144
Pneumothorax, open, hemodynamic studies in (Carey and Hughes), 538
spontaneous, management of (Clagett), 761 (Edit.)
Porcine lung as oxygenator for human blood, studies of (Bryant et al.), 255
Post-pneumonectomy empyema: single-stage operative treatment (Conklin), 634
Preservation, lung, hyperbaric, hypothermic, for 24 hours with replantation (Garzon et al.), 546
of pulmonary surfactant activity in canine lung allografts by immune suppressive therapy (Thomas and Jolly), 405
Primary mesothelioma of pericardium (Dooley et al.), 719
neoplasms, multiple, of lung (Leafstedt et al.), 626
Priming solution, gelatinous, for extracorporeal circulation, use of (Silvay et al.), 350
Program of 1968 Annual Meeting: American Association for Thoracic Surgery, 452
Prosthesis(es), porous, reconstruction of circumferential tracheal defects with: use of heavy Marlex mesh (Pearson et al.), 605
valve, in congenital heart diseases in children and adolescents, use of (Taguchi et al.), 800
Prosthetic aortic valve, obstruction of aorta by (Quattlebaum et al.), 231
grafts for replacement of pulmonary artery (Shumacker and Mandelbaum), 663
materials, cardiac growth following atrial replacement with (Danielson et al.), 842
Pulmonary actinomycosis simulating cancer of lung (Moore and Scannell), 193
Pulmonary—Cont'd
arterial stenosis in experimental ventricular septal defects, hemodynamic effects of (May et al.), 340
artery flow in dogs, effect of pulmonary vein ligation on (Miller et al.), 668
left, "absent," with tetralogy of Fallot (Wallsh et al.), 333
compliance in congenital heart disease and its relation to cardiopulmonary bypass (Deal et al.), 320
and functional residual capacity determinations in dogs with reimplanted left lungs (Birch), 196
diseases, various, bronchial vascular pattern of (Ikeda et al.), 642
embolectomy, experimental, recovery of respiratory function and lung mechanics following (Greenfield et al.), 160
embolism, radioactive ventilation scanning in diagnosis of (Wolfe and Sabiston), 149
hemodynamics and alveolar gas exchange after implantation of artificial right ventricle (Kivelitz and Redo), 820
hypertension, experimental, in dog: preparation involving repeated air embolism (Gilbert et al.), 565
tissue, ectopic, isolated, congenital communication between esophagus and (Moscarella and Wylie), 672
Pulse, aortic, natural, with external pump-induced pulse, factors in coordination of (Harris et al.), 361
pump-induced, external, factors in coordination of natural aortic pulse with (Harris et al.), 361
Pumping, experimental, into left heart cavities and aorta, observations made during (Moulopoulos et al.), 518
Pump-oxygenator systems, incidence and effects of particulate aggregations and microembolism in (Ashmore et al.), 691

R

Radioactive ventilation scanning in diagnosis of pulmonary embolism (Wolfe and Sabiston), 149
Reaction, blood, homologous, in dogs, role of liver in (Ankeney et al.), 288
Reconstruction of circumferential tracheal defects with a porous prosthesis: use of heavy Marlex mesh (Pearson et al.), 605
Reduplication, complete, of right lung (Brownlee and Dafoe), 653
Reflux, gastroesophageal, in infants and children, hiatal hernia and (Lilly and Randolph), 42

Regression, spontaneous, of bronchogenic carcinoma (Emerson et al.), 225
Reimplantation and transplantation, pulmonary, angiographic demonstration of left atrial anastomosis in (Flaherty et al.), 797
Reimplanted left lungs, pulmonary compliance and functional residual capacity determinations in dogs with (Birch), 196
Removal, transjugular, of foreign body from right atrium by endoscopic forceps (Smyth et al.), 594
Reoperation for mitral stenosis (Aronstam et al.), 783
Repair of aortic coarctation and post-stenotic aneurysm in 63-year-old woman (Levine et al.), 732
Replacement of aortic valve, clinical use of heterografts for (Binet et al.), 238
atrial, with prosthetic materials, cardiac growth following (Danielson et al.), 842
esophageal, occurrence of peptic ulcer in colon used for (Malcolm), 763
total, with segment of ileum (Hirsch and Neville), 211
of pulmonary artery, prosthetic grafts for (Shumacker and Mandelbaum), 663
valve, aortic, significance of coronary artery disease in (Linhart et al.), 811
mitral, with autologous pericardium, experimental approach to (Holdefer et al.), 873
Replantation, hypothermic hyperbaric lung preservation for 24 hours with (Garzon et al.), 546
Resection, tracheal, with primary anastomosis, limits of (Mulliken and Grillo), 418
Residual capacity determinations, functional, in dogs with reimplanted left lungs, pulmonary compliance and (Birch), 196
Respiratory acidosis, acute, complicating status asthmaticus, treatment of (Gregory et al.), 426
function and lung mechanics following experimental pulmonary embolectomy, recovery of (Greenfield et al.), 160
support, total, prolonged, extracorporeal biologic oxygenation for (Ratliff), 686
Restenosis, mitral valve (Dekker et al.), 434
Retained endocardial pacemaker electrodes (Furman and Escher), 737
Revascularization of dog heart, physiologic studies on (Tschopp et al.), 466
myocardial: arterial and venous implants (Pifarré et al.), 309
Rhabdomyoma, congenital, of heart (Massumi et al.), 711
Rheumatic fever, acute, aortic valvuloplasty during: hemolytic anemia due to recurrent aortic insufficiency (Gersony et al.), 598

S

"Salvage" cardiac patient, cannulation under local or regional anesthesia for (Danielson et al.), 864
Scanning, ventilation, radioactive, in diagnosis of pulmonary embolism (Wolfe and Sabiston), 149
Septal defect, atrial, left atrial inferior vena cava with (Gautam), 827
ostium primum, and cleft mitral valve, hemolytic anemia after repair of (Shumacker and Herendeen), 489
ventricular, experimental, hemodynamic effects of pulmonary arterial stenosis in (May et al.), 340
traumatic, with septicemia maintained by foreign body suture (Nicks), 725
Septicemia maintained by foreign body suture, traumatic ventricular septal defect with (Nicks), 725
Silastic, prevention of pleural and pericardial adhesions with (Youmans et al.), 383
Sinus mechanism, inadequate, by implantation of right atrial pacemaker electrode, surgical treatment of (Silverman et al.), 264
Spleen cells, donor, for immunosuppressive treatment, effect of cytotoxic agents and: studies of canine lung allotransplantation (Suzuki et al.), 200
Splenosis, intrathoracic (Ahmadi et al.), 677
Spontaneous pneumothorax, management of (Clagett), 761 (Edit.)
regression of bronchogenic carcinoma (Emerson et al.), 225
Status asthmaticus, treatment of acute respiratory acidosis complicating (Gregory et al.), 426
Stenosis, aortic, congenital, surgical treatment of (Mulder et al.), 786
arterial, pulmonary, in experimental ventricular septal defects, hemodynamic effects of (May et al.), 340
carotid, relative, secondary, concept of: carotid-subclavian bypass for "subclavian steal syndrome" (Barner et al.), 773
mitral, reoperation for (Aronstam et al.), 783
subaortic (Lillehei et al.), 94
Stenotic arteries, effect of hemorrhage and dextran infusion on blood flow in (Burns and Schenk), 572
Sternum, bifid: surgical management (Bernhardt et al.), 758
Subaortic stenosis (Lillehei et al.), 94
"Subclavian steal syndrome," carotid-subclavian bypass for (Barner et al.), 773
Surfactant activity, pulmonary, in canine lung allografts by immune suppressive therapy, preservation of (Thomas and Jolly), 405

Surgical approach to totally calcified left atrium (Camishion et al.), 698
Syndrome, Marfan's, surgical correction of mitral insufficiency in (Sirak and Ressallat), 493
"Syndrome, subclavian steal," carotid-subclavian bypass for (Barner et al.), 773
Systemic artery, intramuscularly implanted, effect of continuous rhythmic muscular contraction on patency of (Geha and McGoon), 328

T

Teratoma, intrapericardial, in infant, diagnosis and excision of (White et al.), 704
Test for competency of gastroesophageal junction (Cox and Webb), 603
Tetralogy of Fallot, "absent" left pulmonary artery with (Wallsh et al.), 333
in young child, correction of (Dobell et al.), 70
Thoracic duct cannulation in dog (Valdes and Killen), 555
empyema, management of (Bryant et al.), 850
surgery, American and British (Mason), 1
Thorax open, experimental study and clinical appraisal of external defibrillation with (Rastelli et al.), 116
Thrombotic occlusion of indwelling cannulas, study of (Valdes and Killen), 555
Tracheal defects, circumferential, with a porous prosthesis: use of heavy Marlex mesh (Pearson et al.), 605
resection with primary anastomosis, limits of (Mulliken and Grillo), 418
Transjugular removal of foreign body from right atrium by endoscopic forceps (Smyth et al.), 594
Transplantation, cardiac, human (De Bakey), 447
and reimplantation, pulmonary, angiographic demonstration of left atrial anastomosis in (Flaherty et al.), 797
Transvenous pacemakers, temporary connecting lead for (Deal et al.), 359
Trauma, closed chest, experimental (Hopkinson et al.), 580
Traumatic ventricular septal defect with septicemia maintained by foreign body suture (Nicks), 725
Tricuspid atresia in infancy and childhood, superiority of Glenn operation for (Edwards and Bargeron), 60
Tumor(s), benign and malignant, of esophagus at autopsy (Attah and Hajdu), 396
histogenesis, review of: pleural mesothelioma (Porter and Cheek), 882
Tunnel(s), myocardial, for internal mammary artery implantation, improved technique for creation of (McNamara et al.), 830
substernal or subcutaneous, instrument for making (Lee), 754
Tunneller, substernal: instrument for making substernal or subcutaneous tunnels (Lee), 754

U

Ulcer, peptic, in colon used for esophageal replacement, occurrence of (Malcolm), 763

V

Valve, aortic, clinical use of heterografts for replacement of (Binet et al.), 238
function, homograft, aortic, intraoperative evaluation of (Vasko and Kilman), 141
insufficiency, aortic, acute, as result of bullet wound (Cleveland et al.), 123
mitral, new (Harken et al.), 369
prostheses in congenital heart diseases in children and adolescents, use of (Taguchi et al.), 800
Valvuloplasty, aortic, during acute rheumatic fever: hemolytic anemia due to recurrent aortic insufficiency (Gersony et al.), 598
Vascular pattern, bronchial, of various pulmonary diseases, with emphasis on its diagnostic value in pulmonary cancer (Ikeda et al.), 642
Vein ligation, pulmonary, on pulmonary artery flow in dogs, effect of (Miller et al.), 668
Vena cava, inferior, atrial, left, with atrial septal defect (Gautam), 827
Venous and arterial implants: myocardial revascularization (Pifarré et al.), 309
Ventricle(s) and double-outlet right ventricle, surgical treatment of dextrocardia with inversion of (Kiser et al.), 6
right, artificial, pulmonary hemodynamics and alveolar gas exchange after implantation of (Kivelitz and Redo), 820
Ventricular and atrial pacing in postoperative cardiac surgical patients, hemodynamic comparison of (Friesen et al.), 271
fibrillation, influence of oxygen and helium upon (Pifarré et al.), 535
function, right, effects of right atriotomy and ventriculotomy upon (Parker et al.), 88
septal defects, experimental, hemodynamic effects of pulmonary arterial stenosis in (May et al.), 340
traumatic, with septicemia maintained by foreign body suture (Nicks), 725
Ventriculotomy upon right ventricular function, effects of right atriotomy and (Parker et al.), 88
Vertebral arteriovenous fistula (Tsuji et al.), 746

W

Wounds, war, of chest, intermediate care of (Patterson et al.), 16

The Journal of THORACIC AND CARDIOVASCULAR SURGERY

Official organ, The American Association for Thoracic Surgery

Editor BRIAN BLADES, *Washington, D. C.*

Associate editors THOMAS H. BURFORD, *St. Louis*
PAUL ADKINS, *Washington, D. C.*

Advisory editorial board WILLIAM E. ADAMS, *Chicago*
EDWARD J. BEATTIE, JR., *New York*
WILFRED G. BIGELOW, *Toronto*
EDWARD D. CHURCHILL, *Boston*
O. THERON CLAGETT, *Rochester, Minn.*
ANTHONY R. CURRERI, *Madison*
DONALD B. EFFLER, *Cleveland*
LEO ELOESSER, *San Francisco*
ROBERT E. GROSS, *Boston*
CAMERON HAIGHT, *Ann Arbor*
STUART W. HARRINGTON, *Rochester, Minn.*
JOHN C. JONES, *Los Angeles*
HIRAM T. LANGSTON, *Chicago*
HERBERT C. MAIER, *New York*
DONALD L. PAULSON, *Dallas*
DAVID C. SABISTON, JR., *Durham, N. C.*
PAUL C. SAMSON, *Oakland*

Advisory editorial board representing the Society of Thoracic Surgeons of Great Britain and Ireland LORD RUSSELL C. BROCK, *London, England*
SIR CLEMENT PRICE THOMAS, *Sussex, England*

EVARTS A. GRAHAM, *Editor, 1931-1957*
EMILE HOLMAN, *Editor, 1957-1962*

Volume 56, July-December, 1968
The C. V. Mosby Company
St. Louis, Mo.

Volume 56
Copyright, © 1968 by The C. V. Mosby Company
All rights reserved
Printed in the United States of America

Index to volume 56

Author index*

A

ADKINS, PAUL C., WESSELHOEFT, CONRAD, W., JR., NEWMAN, WILLIAM, AND BLADES, BRIAN. Thoracotomy on the patient with previous malignancy: metastasis or new primary? 351, 361

ADLER, RICHARD A. Discussion of cancer of lung, 370

AHN, CHANGWOO, HOSIER, DON M., and SIRAK, HOWARD D. Cor triatriatum: a case report and review of other operative cases, 177

AKBARIAN, MOHAMMED (*See* KASTOR, AKBARIAN, BUCKLEY, DINSMORE, SANDERS, SCANNELL, and AUSTEN), 279

AKUTSU, TETSUZO, TAKAGI, HIROYUKI, CHENG, WAN FA, and HARDY, JAMES D. Complete ventricular atrialization by an implantable heart support device, 421

ALDRIDGE, HAROLD E. (*See* KEY, ALDRIDGE, and MACGREGOR), 477

ALI, M. KHALIL (*See* TERZAKI, LEACHMAN, ALI, HALLMAN, and COOLEY), 1

ALPERT, JOSEPH (*See* PARSONNET, GILBERT, LEWIN, MYERS, ZUCKER, ALPERT, and AVERY), 710

ALVAREZ-DIAZ, F., BRITO, J. M., LOZANO, C., and NUÑEZ, L. New technique for the creation of an atrial septal defect: experimental study and clinical application, 221

ANDERSON, LYNN H. (*See* MORTENSEN and ANDERSON), 510

ANGELL, WILLIAM W., STINSON, EDWARD B., IBEN, ALBERT B., and SHUMWAY, NORMAN E. Multiple valve replacement with the fresh aortic homograft, 323, 332

ANGULO-HERNÁNDEZ, OCTAVIO (*See* JIMÉNEZ-MARTÍNEZ, FRANCO-VÁZQUEZ, ANGULO-HERNÁNDEZ, and RETA-VILLALOBOS), 165

ANTON, AARON H. (*See* DAICOFF, CHAVEZ, ANTON, and SWENSON), 810

ARBULU, AUGUSTINE (*See* HYMES, SAFAVIAN, ARBULU, and BAUTE), 16

ARMELLINI, CIRO, MERSHEIMER, WALTER L., and BURMAN, SHELDON O. The use of fluorescein for determining the site for internal mammary artery implantation, 643

ASANO, KEN-ICHI (*See* EGUCHI and ASANO), 413

ATTAR, SAFUH M. A. Discussion of Thoracic Surgery Forum, 688, 877

AUGER, P. (*See* BIGELOW, TRIMBLE, AUGER, and WIGLE), 304

AUSTEN, W. GERALD (*See* KASTOR, AKBARIAN, BUCKLEY, DINSMORE, SANDERS, SCANNELL, and AUSTEN), 279

AVERY, ROGER (*See* PARSONNET, GILBERT, LEWIN, MYERS, ZUCKER, ALPERT, and AVERY), 710

B

BAHNSON, HENRY T. (*See* HARDESTY, BAYER, and BAHNSON), 683

—. Discussion of Thoracic Surgery Forum, 797

BAILAS, NICHOLAS, HAIDERER, OTTO, and KENNEDY, JOHN H. Extended preoperative assessment of patients undergoing pulmonary resection, 123

BAILEY, CHARLES P. Discussion of Thoracic Surgery Forum, 631

BARNARD, C. N. What we have learned about heart transplants (Guest speaker's address), 457

BARNER, HENDRICK B., KAISER, GEORGE C., MUDD, J. GERARD, JELLINEK, MAX, and HANLON, C. ROLLINS. Internal mammary artery implantation: effects upon coronary flow and ventricular function, 43

BARNES, ROBERT W. (*See* MOHRI, REICHENBACH, BARNES, and MERENDINO), 767

—. (*See* MOHRI, REICHENBACH, NELSON, BARNES, and MERENDINO), 546

BARRIE, JOSEPH R., and GOODNER, JOHN T. Hematemesis from cancer of esophagus, 289

*July, pp. 1-154; August, pp. 155-306; September, pp. 307-456; October, pp. 457-610; November, pp. 611-766; December, pp. 767-916.

BAUE, ARTHUR E., DONAWICK, WILLIAM J., and BLAKEMORE, WILLIAM S. The immunologic response to heterotopic allovital aortic valve transplants in presensitized and nonsensitized recipients, 775
—. Discussion of Thoracic Surgery Forum, 867
BAUTE, PETER (*See* HYMES, SAFAVIAN, ARBULU, and BAUTE), 16
BAYER, WILLIAM L. (*See* HARDESTY, BAYER, and BAHNSON), 683
BEALL, ARTHUR C., JR. Discussion of prosthetic valves, 319
BECK, KATHERINE (*See* HYMES and BECK), 23
BECKWITT, HENRY J. (*See* JACOBEY, CRADDOCK, WOLF, and BECKWITT), 846
BEHRENDT, DOUGLAS M. (*See* PIERCE, BEHRENDT, and MORROW), 229
BELSEY, R. H. R., DOWLATSHAHI, K., KEEN, G., and SKINNER, DAVID B. Profound hypothermia in cardiac surgery, 497, 508
BENFIELD, J. R. Discussion of Thoracic Surgery Forum, 808
BENZING, GEORGE, III, STOCKERT, JAMES, DEFOREST, DAVID, and KAPLAN, SAMUEL. Effect of myocardial ischemia on left ventricular function after hypothermic cardiopulmonary bypass, 241
BERGER, KNUTE (*See* DEDOMENICO, SAMEH, BERGER, WOOD, and SAUVAGE), 617
BIGELOW, JOHN C., HERR, RODNEY H., WOOD, JAMES A., and STARR, ALBERT. Clinical experience with Medtronic and General Electric transthoracic pacemakers, 189
BIGELOW, W. G., TRIMBLE, A. S., AUGER, P., and WIGLE, E. D. Aortic homograft replacement of the mitral valve: addendum, 304
BILGUTAY, AYDIN M., BILGUTAY, ILHAN M., MERKEL, FREDERICK K., and LILLEHEI, C. WALTON. Vagal tuning: a new concept in the treatment of supraventricular arrhythmias, angina pectoris, and heart failure, 71
BILGUTAY, ILHAN M. (*See* BILGUTAY, BILGUTAY, MERKEL, and LILLEHEI), 71
BINET, J. P., LANGLOIS, J., LEIVA-SEMPER, A., and DAVID, PH. Ventriculomyotomy in hypertrophies of the left ventricle, 469
—. Discussion of heart valve replacement, 350
BIRTWELL, W. C. (*See* RUIZ, SOROFF, BIRTWELL, MANY, GIRON, and DETERLING), 832
BLADES, BRIAN (*See* ADKINS, WESSELHOEFT, NEWMAN, and BLADES), 351
—. (*See* WESSELHOEFT, GLEW, RANDOLPH, and BLADES), 658
BLATT, ETHYL S. (*See* SALMON and BLATT), 28
BLACKSTONE, EUGENE H., EVANS, RICHARD H., ECKNER, FRIEDRICH A. O., DRAKE, ALLAN, and MOULDER, PETER V. Perfusion-induced myocardial injury, 689, 698
—. Discussion of Thoracic Surgery Forum, 892
BLAKEMORE, WILLIAM S. (*See* BAUE, DONAWICK, and BLAKEMORE), 775
BLONDEAU, PH. (*See* CARPENTIER, BLONDEAU, LAURENS, HAY, LAURENT, and DUBOST), 388
BLOODWELL, ROBERT. Discussion of Thoracic Surgery Forum, 697
BLUTH, IRWIN (*See* RIPSTEIN, SPAIN, AND BLUTH), 362
BOLOOKI, HOOSHANG, ROOKS, JOHN J., VIERA, CRISTOBAL E., SMITH, BALLARD, MOBIN-UDDIN, KAZI, LOMBARDO, CARLOS R., and JUDE, JAMES R. Comparison of the effect of temporary or permanent myocardial ischemia on cardiac function and pathology, 590
BONNABEAU, RAYMOND C., JR., and LILLEHEI, C. WALTON. Mechanical "ball failure" in Starr-Edwards prosthetic valves: a report of 3 cases, 258
BOUMA, H. G. D. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799
BRAMSON, M. L. (*See* MILLER and BRAMSON), 607
BRAUNWALD, NINA S., and MORROW, ANDREW G. Tissue ingrowth and the rigid heart valve: review of clinical and experimental experience during the past year, 307, 322
BREWER, LYMAN A., III. Discussion of Thoracic Surgery Forum, 543
BRITO, J. M. (*See* ALVAREZ-DIAZ, BRITO, LOZANO, and NUÑEZ), 221
BRYANT, L. (*See* HOMATAS, BRYANT, and EISEMAN), 132
BUCKLEY, MORTIMER J. (*See* KASTOR, AKBARIAN, BUCKLEY, DINSMORE, SANDERS, SCANNELL, and AUSTEN), 279
BURBANK, BENJAMIN (*See* CUTLER and BURBANK), 558
BURGESS, JOHN N., CARLSON, HARLEY C., and ELLIS, F. HENRY, JR. Esophageal function after successful repair of esophageal atresia and tracheoesophageal fistula: a manometric and cinefluorographic study, 667
BURMAN, SHELDON O. (*See* ARMELLINI, MERSHEIMER, and BURMAN), 643, 657
—. Discussion of cancer of lung, 369
—. Discussion of Thoracic Surgery Forum, 797
BUTNER, ALFRED N. (*See* KANTROWITZ, PHILLIPS, BUTNER, TJØNNELAND, and HALLER), 219

C

CAHAN, WILLIAM G. Discussion of carcinoma, 360

CALEM, WILLIAM (*See* LAGUERRE, SCHOENFELD, CALEM, GOULD, and LEVOWITZ), 674
CAMISHION, RUDOLPH C. (*See* PADULA, COWAN, and CAMISHION), 790
CARESS, DONALD L., KISSACK, ALFRED S., SLOVIN, ALVIN J., and STUCKEY, JACKSON H. The effect of respiratory and metabolic acidosis on myocardial contractility, 571
CAREY, JOSEPH. Discussion of Thoracic Surgery Forum, 517
CARLSON, HARLEY C. (*See* BURGESS, CARLSON, and ELLIS), 667
CARPENTIER, A., BLONDEAU, PH., LAURENS, B., HAY, A., LAURENT, D., and DUBOST, CH. Mitral and tricuspid valve replacement with frame-mounted aortic heterografts, 388
CARR, DUANE. Discussion of Thoracic Surgery Forum, 544
CARTER, MAX G. Discussion of Thoracic Surgery Forum, 688
CASTELLINO, RONALD A. (*See* STINSON, CASTELLINO, and SHUMWAY), 554
CENTER, SOL, SAMET, PHILIP, and LINHART, JOSEPH. Pervenous standby pacing of the heart, 170
CHAVEZ, FLORENCIO R. (*See* DAICOFF, CHAVEZ, ANTON, and SWENSON), 810
CHENG, WAN FA (*See* AKUTSU, TAKAGI, CHENG, and HARDY), 421
CIVETTA, JOSEPH M., and DAGGETT, WILLARD M. The azygos lobe: clinical implications and an unusual variant, 430
CLELAND, JOHN (*See* PLUTH, CLELAND, TAUXE, and KIRKLIN), 108
CLEVENGER, ROBERT (*See* ENERSON and CLEVENGER), 210
COHN, KEITH E. (*See* MILLER, COHN, KERTH, SELZER, and GERBODE), 611
COHN, LAWRENCE H., REIS, ROBERT L., and MORROW, ANDREW G. Left ventricular function after mitral valve replacement: comparative studies with resection and preservation of chordae tendineae, 11
CONNOLLY, JOHN E. (*See* WAKABAYASHI and CONNOLLY), 633, 657
—. Discussion of Thoracic Surgery Forum, 507
COOLEY, DENTON A. (*See* TERZAKI, LEACHMAN, ALI, HALLMAN, and COOLEY), 1
COWAN, GEORGE S. M., JR. (*See* PADULA, COWAN, and CAMISHION), 790
COX, WILLIAM D. (*See* NEVILLE, COX, LEININGER, and PIFARRÉ), 39
CRADDOCK, LANE D. (*See* JACOBEY, CRADDOCK, WOLF, and BECKWITT), 846
CURI, NAGIB (*See* DIAS, ZERBINI, and CURI), 120
CUTTER, SEYMOUR S., and BURBANK, BENJAMIN. Fluid control devices, "rheostasis," and the human circulation, 558

D

DAGGETT, WILLARD M. (*See* CIVETTA and DAGGETT), 430
DAICOFF, GEORGE R., CHAVEZ, FLORENCIO C., ANTON, AARON H., and SWENSON, EDWARD W. Serotonin-induced pulmonary venous hypertension in pulmonary embolism, 810, 816
DART, CHARLES H., JR., MONTGOMERY, THOMAS, and PETERS, RICHARD M. Experimental hyperkinetic pulmonary hypertension: tolerance after biventricular hypertrophy produced by a femoral arteriovenous fistula, 817, 824
DAUGHERTY, HARRY K. (*See* SANGER, ROBICSEK, and DAUGHERTY), 141
DAVID, PH. (*See* BINET, LANGLOIS, LEIVA-SEMPER, and DAVID), 469
DAVILA, JULIO C. Discussion of prosthetic valves, 321
DEBORD, ROBERT A., ELWOOD, PATRICK, and HART, ROBERT. Removal of Pudenz catheter from the heart: case report, 236
DEDOMENICO, MARK, SAMEH, ABBAS A., BERGER, KNUTE, WOOD, STEPHEN J., and SAUVAGE, LESTER R. Experimental coronary artery surgery: long-term follow-up bypass venous autografts, longitudinal arteriotomies, and end-to-end anastomoses, 617
DEFOREST, DAVID (*See* BENZING, STOCKERT, DEFOREST, and KAPLAN), 241
DESILETS, DONALD T. (*See* WOLFE, RUTTENBERG, DESILETS, and MULDER), 114
DETERLING, R. A., JR. (*See* RUIZ, SOROFF, BIRTWELL, MANY, GIRON, and DETERLING), 832
DIAS, RIBIERO ALTAMIRO, ZERBINI, E. J., and CURI, NAGIB. Pleural stone: a case report, 120
DIGERNESS, STANLEY (*See* PLUTH, CLELAND, TAUXE, and KIRKLIN), 108
DINSMORE, ROBERT E. (*See* KASTOR, AKARIAN, BUCKLEY, DINSMORE, SANDERS. SCANNELL, and AUSTEN), 279
DODRILL, FOREST DEWEY. Discussion of Thoracic Surgery Forum, 687
DONAWICK, WILLIAM J. (*See* BAUE, DONAWICK, and BLAKEMORE), 775
DOWLATSHAHI, K. (*See* BELSEY, DOWLATSHAHI, KEEN, and SKINNER), 497
DRAKE, ALLAN (*See* BLACKSTONE, EVANS, ECKNER, DRAKE, and MOULDER), 689
DUBOST, CH. (*See* CARPENTIER, BLONDEAU, LAURENS, HAY, LAURENT, and DUBOST), 388
DYE, WILLIAM S. (*See* NAJAFI, DYE, JAVID, HUNTER, and JULIAN), 57

E

ECKER, R. R. (*See* SUGG, REA, ECKER, WEBB, ROSE, and SHAW), 531

ECKNER, FRIEDRICH A. O. (*See* BLACKSTONE, EVANS, ECKNER, DRAKE, and MOULDER), 689

EFFLER, DONALD B. Anesthesia in revascularization surgery: a new advance, 163 (Edit.)

EGBERG, N. (*See* LAGERGREN, EGBERG, ERICKSSON, and GILLBERG), 381

EGUCHI, SHOJI, and ASANO, KEN-ICHI. Homograft of pulmonary artery or ascending aorta with valve as a right ventricular flow, 413

EISEMAN, B. (*See* HOMATAS, BRYANT, and EISEMAN), 132

ELLIS, F. HENRY, JR. (*See* BURGESS, CARLSON, and ELLIS), 667

ELLISON, ROBERT G. Discussion of Thoracic Surgery Forum, 824

ELWOOD, PATRICK (*See* DEBORD, ELWOOD, and HART), 236

ENERSON, DANIEL M., AND CLEVENGER, ROBERT. Effect of transplantation on respiration and composition of aortic valves and pericardium, 210

ENRIGHT, LEE P. (*See* REIS, ENRIGHT, HANNAH, and MORROW), 647

ERIKSSON, J. C. (*See* LAGERGREN, EGBERG, ERIKSSON, and GILLBERG), 381

EVANS, RICHARD H. (*See* BLACKSTONE, EVANS, ECKNER, DRAKE, and MOULDER), 689

F

FERLIC, R. (*See* RASSMAN, TANAKA, SUBRAMANIAN, FERLIC, and LILLEHEI), 858

FLEGE, JOHN B., JR., VALENCIA A., GUILLERMO, and ZIMMERMAN, GEORGE. Obstruction of a child's trachea by a polypoid hemangioendothelioma, 144.

FLEMING, WILLIAM H., SCHULTZ, JEPPE, and MALM, JAMES R. Synchronized counterpulsation in the management of ventricular fibrillation following coronary artery ligation, 253

FRANCO-VÁZQUEZ, SERGIO (*See* JIMÉNEZ-MARTÍNEZ, FRANCO-VÁZQUEZ, ANGULO-HERNÁNDEZ, and RETA-VILLALOBOS), 165

G

GADBOYS, HOWARD L. (*See* LITWAK, KUHN, GADBOYS, LUKBAN, and SAKURAI), 484

GAGNON, EDOUARD D., and NAZARI, ANOOSHIRAVAN. Suture technique for wedge resection of lung, 428

GAGO, OTTO. Discussion of Thoracic Surgery Forum, 808

GERBODE, FRANK (*See* MILLER, COHN, KERTH, SELZER, and GERBODE), 611

—. Discussion of heart valve replacement, 350

GILBERT, JOSEPH W., GRAVANIS, M. B., MANSOUR, KAMAL, and TRAER, JON. Replacement of the canine tricuspid valve with a semilunar heterograft, 88

GILBERT, LAWRENCE (*See* PARSONNET, GILBERT, LEWIN, MYERS, ZUCKER, ALPERT, and AVERY), 710

GILLBERG, G. (*See* LAGERGREN, EGBERG, ERIKSSON, and GILLBERG), 381

GIRON, F. (*See* RUIZ, SOROFF, BIRTWELL, MANY, GIRON, and DETERLING), 832

GLENN, WILLIAM W. Discussion of Thoracic Surgery Forum, 518

GLEW, DONALD H., JR. (*See* WESSELHOEFT, GLEW, RANDOLPH, and BLADES), 658

GOETZ, R. H. Discussion of Thoracic Surgery Forum, 855

GOLDFARB, DAVID, and GOTT, VINCENT L. Cardiovascular alterations during declining and steady-state low cardiac output secondary to coronary insufficiency in the dog, 578

GOLDMAN, ALFRED. Discussion of Thoracic Surgery Forum, 696

GOODNER, JOHN T. (*See* BARRIE and GOODNER), 289

GOTT, VINCENT L. (*See* GOLDFARB and GOTT), 578

—. (*See* WHIFFEN and GOTT), 624

GOULD, FRANCIS E. (*See* LAGUERRE, SCHOENFELD, CALEM, GOULD, and LEVOWITZ), 674

GRABOWSKI, EUGENE W., and MALT, RONALD A. Talcs for pleural poudrage: physical and chemical factors in therapeutic effect, 760

GRAVANIS, M. B. (*See* GILBERT, GRAVANIS, MANSOUR, and TRAER), 88

GRAY, J. M. (*See* LOWE, KLINGLER, GRAY, and REED), 83

GROVES, LAURENCE K. Discussion of Thoracic Surgery Forum, 482

H

HADIDIAN, CALVIN (*See* HIRSCH, HADIDIAN, and NEVILLE), 197

HAIDERER, OTTO (*See* BAILAS, HAIDERER, and KENNEDY), 123

HALL, R. W. (*See* SARIN, HALL, and ROSS), 395

HALLER, J. ALEX, JR. Discussion of Thoracic Surgery Forum, 681

HALLER, JORDAN D. (*See* KANTROWITZ, PHILLIPS, BUTNER, TJØNNELAND, and HALLER), 219

—. Discussion of Thoracic Surgery Forum, 855

HALLMAN, GRADY, L. (*See* TERZAKI, LEACHMAN, ALI, HALLMAN, and COOLEY), 1

HANLON, C. ROLLINS, (*See* BARNER, KAISER, MUDD, JELLINEK, and HANLON), 43

HANNAH, HAMNER, III (*See* REIS, ENRIGHT, HANNAH, and MORROW), 647

HARDESTY, ROBERT L., BAYER, WILLIAM L., and BAHNSON, HENRY T. A technique for the use of autologous fresh blood during open-heart surgery, 683, 688

HARDY, JAMES D. (*See* AKUTSU, TAKAGI, CHENG, and HARDY), 421

HARGREAVES, MICHAEL D. (*See* IONESCU, WOOLER, WHITAKER, SMITH, TAYLOR, and HARGREAVES), 333

HART, ROBERT (*See* DEBORD, ELWOOD, and HART), 236

HATCHER, CHARLES R., JR. (*See* SYMBAS, HATCHER, and MANSOUR), 97

HAY, A. (*See* CARPENTIER, BLONDEAU, LAURENS, HAY, LAURENT, and DUBOST), 388

HEEMSTRA, H. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

HEIMBECKER, RAYMOND O. Discussion of multiple valve replacement, 331

HERENDEEN, T. L., and KING, H. Transient anuria and paraplegia following traumatic rupture of the thoracic aorta, 599

HERR, RODNEY H. (*See* BIGELOW, HERR, WOOD, and STARR), 189

HILVERING, CHR. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

HIROSE, TERUO, Discussion of Thoracic Surgery Forum, 655, 696

HIRSCH, DAVID M., HADIDIAN, CALVIN, and NEVILLE, WILLIAM E. Oxygen consumption during cardiopulmonary bypass with large volume hemodilution, 197

HOMATAS, J., BRYANT, L., and EISEMAN, B. Time limits of cadaver lung viability, 132

HOSIER, DON M. (*See* AHN, HOSIER, and SIRAK), 177

HUDSPETH, ALLEN S. Discussion of pacing after open cardiac operations, 495

—. Discussion of Thoracic Surgery Forum, 681

HUFNAGEL, CHARLES A. (*See* PIFARRÉ and HUFNAGEL), 203

HUNTER, JAMES A. (*See* NAJAFI, DYE, JAVID, HUNTER, and JULIAN), 57

HUTCHINSON, JOHN E., III, NASH, ARTEMIS D., and MCCORD, COLIN W. Neuroblastoma of anterior mediastinum in adult, 147

HYMES, ALAN C., and BECK, KATHERINE. A comparison of Pluronic F-68, low molecular weight dextran, mannitol, and saline as priming agents in the heart-lung apparatus. Part II. The in vitro influence on oxygen consumption of certain fluids used as priming agents in a heart-lung bypass apparatus, 23

—, SAFAVIAN, M. H., ARBULU, AUGUSTINE, and BAUTE, PETER. A comparison of Pluronic F-68, low molecular weight dextran, mannitol, and saline as priming agents in the heart-lung appartus. Part I. Pluronic F-68: first use as a plasma substitute, 16

I

IBEN, ALBERT B. (*See* ANGELL, STINSON, IBEN, and SHUMWAY), 323

IONESCU, MARIAN I., WOOLER, GEOFFREY H., WHITAKER, WILLIAM, SMITH, DONALD R., TAYLOR, STANLEY H., and HARGREAVES, MICHAEL D. Heart valve replacement with reinforced aortic heterografts: technique and results, 333, 350

J

JACOBEY, JOHN ARTHUR, CRADDOCK, LANE D., WOLF, PHILLIP S., and BECKWITT, HENRY J. Clinical experience with counterpulsation in coronary artery disease, 846, 856

JAVID, HUSHANG (*See* NAJAFI, DYE, JAVID, HUNTER, and JULIAN), 57

JELLINEK, MAX (*See* BARNER, KAISER, MUDD, JELLINEK, and HANLON), 43

JIMÉNEZ-MARTÍNEZ, MANUEL, FRANCO-VÁZQUEZ, SERGIO, ANGULO-HERNÁNDEZ, OCTAVIO, and RETA-VILLALOBOS, ARMANDO. Blood cysts of the pulmonary valve producing pulmonic stenosis: a successful surgical treatment, 165

JOHNSTON, BRUCE. Discussion of Thoracic Surgery Forum, 482

JONES, J. C. (*See* MEYER, STEFANIK, STILES, LINDESMITH, and JONES), 104

JONES, RICHARD D. Discussion of Thoracic Surgery Forum, 797

JONES, R. Discussion of prosthetic valves, 319

JUDE, JAMES R. (*See* BOLOOKI, ROOKS, VIERA, SMITH, MOBIN-UDDIN, LOMBARDO, and JUDE), 590

—. Discussion of Thoracic Surgery Forum, 481

JULIAN, ORMAND C. (*See* NAJAFI, DYE, JAVID, HUNTER, and JULIAN), 57

K

KAISER, GEORGE C. (*See* BARNER, KAISER, MUDD, JELLINEK, and HANLON), 43

KANTROWITZ, ADRIAN, PHILLIPS, STEVEN J., BUTNER, ALFRED N., TJØNNELAND, STEINAR, and HALLER, JORDAN D. Technique of femoral artery cannulation for phase-shift balloon pumping, 219

KAPLAN, SAMUEL (*See* BENZING, STOCKERT, DEFOREST, and KAPLAN), 241

KARLÖF, I. (*See* LAGERGREN and KARLÖF), 51

KARLSON, KARL E. Discussion of Thoracic Surgery Forum, 529

KASTOR, JOHN A., AKBARIAN, MOHAMMED, BUCKLEY, MORTIMER J., DINSMORE, ROBERT E., SANDERS, CHARLES A., SCANNELL, J. GORDON, and AUSTEN, W. GERALD. Paravalvular leaks and hemolytic anemia following insertion of Starr-Edwards aortic and mitral valves, 279

KAUFMAN, JOSEPH J. (*See* MULDER and KAUFMAN), 184

KAY, JEROME HAROLD (*See* KROHN, MAGIDSON, LEWIS, TSUJI, REDINGTON, and KAY), 748

—. (*See* KROHN, URQUHART, MAGIDSON, TSUJI, REDINGTON, and KAY), 732

—. Discussion of prosthetic valve, 321

KEEN, G. The surgical management of old esophageal perforations, 603

—. (*See* BELSEY, DOWLATSHAHI, KEEN, and SKINNER), 497

KENNEDY, JOHN H. (*See* BAILAS, HAIDERER, and KENNEDY), 123

—. Discussion of Thoracic Surgery Forum, 867

KEON, W. J., and TRIMBLE, A. S. Thoracic aneurysm: a simplified method of resection, 408

KERTH, WILLIAM J. (*See* MILLER, COHN, KERTH, SELZER, and GERBODE), 611

—. Discussion of Thoracic Surgery Forum, 632

KEY, JAMES A., ALDRIDGE, HAROLD E., and MACGREGOR, D. C. The selection of patients for resection of left ventricular aneurysm, 477, 483

KING, H. (*See* HERENDEEN and KING), 599

KIRKLIN, JOHN W. (*See* PLUTH, CLELAND, TAUXE, and KIRKLIN), 108

—. Discussion of Thoracic Surgery Forum, 508

KIRSCHNER, PAUL A. Discussion of cancer of lung, 368

KISSACK, ALFRED S. (*See* CARESS, KISSACK, SLOVIN, and STUCKEY), 571

KLEINE, J. W. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

KLINGLER, E. (*See* LOWE, KLINGLER, GRAY, and REED), 83

KOUCHOUKOS, NICHOLAS. Discussion of Thoracic Surgery Forum, 518

KRAMER, RICHARD S., SANDERS, AARON P., LESAGE, ALAN M., WOODHALL, BARNES, and SEALY, WILL C. The effect of profound hypothermia on preservation of cerebral ATP content during circulatory arrest, 699

KROHN, BERNARD G., MAGIDSON, OSCAR, LEWIS, REUBEN R., TSUJI, HAROLD K., REDINGTON, JOHN V., and KAY, JEROME HAROLD. Prevention of metabolic alkalosis following heart surgery, 748

—, URQUHART, ROBERT R., MAGIDSON, OSCAR, TSUJI, HAROLD K., REDINGTON, JOHN V., and KAY, JEROME HAROLD. Metabolic alkalosis following heart surgery, 732

KUENZIG, MARIAN C. (*See* MILLER and KUENZIG), 717

KUHN, LESLIE A. (*See* LITWAK, KUHN, GADBOYS, LUKBAN, and SAKURAI), 484

L

LAGERGREN, H., EGBERG, N., ERIKSSON, J. C., and GILLBERG, G. Preparation and evaluation of "nonthrombogenic" surfaces, 381

—, and KARLÖF, I. Pacemaking according to a system of building blocks, 51

LAGUERRE, JOSEPH N., SCHOENFELD, HENRY, CALEM, WILLIAM, GOULD, FRANCIS E., and LEVOWITZ, BERNARD S. Prosthetic replacement of esophageal segments, 674, 682

LAM, CONRAD. Discussion of Thoracic Surgery Forum, 481

LANGLOIS, J. (*See* BINET, LANGLOIS, LEIVA-SEMPER, and DAVID), 469

LAURENS, B. (*See* CARPENTIER, BLONDEAU, LAURENS, HAY, LAURENT, and DUBOST), 388

LAURENT, D. (*See* CARPENTIER, BLONDEAU, LAURENS, HAY, LAURENT, and DUBOST), 388

LAWRENCE, G. HUGH. Discussion of carcinoma, 361

LEACHMAN, ROBERT D. (*See* TERZAKI, LEACHMAN, ALI, HALLMAN, and COOLEY), 1

LEININGER, BERNARD (*See* NEVILLE, COX, LEININGER, and PIFARRÉ), 39

LEIVA-SEMPER, A. (*See* BINET, LANGLOIS, LEIVA-SEMPER, and DAVID), 469

LESAGE, ALAN M. (*See* KRAMER, SANDERS, LESAGE, WOODHALL, and SEALY), 699

LEVOWITZ, BERNARD S. (*See* LAGUERRE, SCHOENFELD, CALEM, GOULD, and LEVOWITZ), 674

LEVY, MORRIS J. (*See* MELAMED, SHTARK, and LEVY), 754

LEWIN, GERHARD (*See* PARSONNET, GILBERT, LEWIN, MYERS, ZUCKER, ALPERT, and AVERY), 710

LEWIS, F. JOHN, MOSES, VIJAI K., QUINN, MICHAEL L., and PETROVICK, MATHEW L. Automatic measurement of tidal volume in postoperative patients, 825

LEWIS, REUBEN R. (*See* KROHN, MAGIDSON, LEWIS, TSUJI, REDINGTON, and KAY), 748

LILLEHEI, C. WALTON (*See* BILGUTAY, BILGUTAY, MERKEL, and LILLEHEI), 71

—. (*See* BONNABEAU and LILLEHEI), 258

—. (*See* RASSMAN, TANAKA, SUBRAMANIAN, FERLIC, and LILLEHEI), 858

LINCOLN, J. C. R., TYNAN, M. J., and WATERSTON, D. J. Successful excision of an endocardial fibroma of the left ventricle in a 10-month-old infant, 63

LINDESMITH, G. G. (*See* MEYER, STEFANIK, STILES, LINDESMITH, and JONES), 104

LINHART, JOSEPH (*See* CENTER, SAMET, and LINHART), 170

LITWAK, ROBERT S., KUHN, LESLIE A., GADBOYS, HOWARD L., LUKBAN, SALVADOR B., and SAKURAI, HIDEKI. With the technical assistance of VIOLET SCHARF. Support of myocardial performance after open cardiac operations by rate augmentation, 484

LOMBARDO, CARLOS R. (*See* BOLOOKI, ROOKS, VIERA, SMITH, MOBIN-UDDIN, LOMBARDO, and JUDE), 590

LOWE, R. S., KLINGLER, E., GRAY, J. M., and REED, W. A. Late results of heart valve replacement with the ball-valve prosthesis, 83

LOWER, RICHARD R. Discussion of multiple valve replacement, 331

LOZANO, C. (*See* ALVAREZ-DIAZ, BRITO, LOZANO, and NUÑEZ), 221

LUCIDO, JOSEPH L. Discussion of Thoracic Surgery Forum, 543

LUKBAN, SALVADOR B. (*See* LITWAK, KUHN, GADBOYS, LUKBAN, and SAKURAI), 484

LYNCH, L. J. (*See* SUGG, LYNCH, and WEBB), 33

M

MCCORD, COLIN W. (*See* HUTCHINSON, NASH, and MCCORD), 147

MCGOON, DWIGHT C. (*See* RASTELLI, TITUS, and MCGOON), 879

MACGREGOR, D. C. (*See* KEY, ALDRIDGE, and MACGREGOR), 477

MCGUIRE, JOSEPH L. (*See* WOLFSON and MCGUIRE), 239

MCNAMARA, J. JUDSON, VARON, HAROLD H., PAULSON, DONALD L., SHAH, INDIRA, and URSCHEL, HAROLD C., JR. Steroid hormone abnormalities in patients with carcinoma of the lung, 371

MAGIDSON, OSCAR (*See* KROHN, MAGIDSON, LEWIS, TSUJI, REDINGTON, and KAY), 748

—. (*See* KROHN, URQUHART, MAGIDSON, TSUJI, REDINGTON, and KAY), 732

MAIER, HERBERT C., and VAN DER WOUDE, RIENTS. Right-sided patent ductus arteriosus with right aortic arch, 401

MALM, JAMES R. (*See* FLEMING, SCHULTZ, and MALM), 253

MALT, RONALD A. (*See* GRABOWSKI and MALT), 760

MANSOUR, KAMAL (*See* GILBERT, GRAVANIS, MANSOUR, and TRAER), 88

—. (*See* SYMBAS, HATCHER, and MANSOUR), 97

MANY, M. (*See* RUIZ, SOROFF, BIRTWELL, MANY, GIRON, and DETERLING), 832

MATSUURA, YUICHIRO (*See* TAGUCHI, MATSUURA, YOSHIZAKI, and TAMURA), 265

MELAMED, RUTH, SHTARK, V., and LEVY, MORRIS J. Foreign body in the right ventricle causing bacterial endocarditis: recovery following removal, 754

MERENDINO, K. ALVIN (*See* MOHRI, REICHENBACH, BARNES, and MERENDINO), 767

—. (*See* MOHRI, REICHENBACH, NELSON, BARNES, and MERENDINO), 546

MERKEL, FREDERICK. (*See* BILGUTAY, BILGUTAY, MERKEL, and LILLEHEI), 71

MERSHEIMER, WALTER L. (*See* ARMELLINI, MERSHEIMER, and BURMAN), 643

MEYER, B. W., STEFANIK, G., STILES, Q. R., LINDESMITH, G. G., and JONES, J. C. A method of definitive treatment of anomalous origin of left coronary artery: a case report, 104

MILLER, DON R., and KUENZIG, MARIAN C. Pulmonary changes following normothermic and profound hypothermic perfusion in dogs, 717

MILLER, GEORGE E., JR., and BRAMSON, M. L. Dependent pericardial drainage, 607

—, COHN, KEITH E., KERTH, WILLIAM J., SELZER, ARTHUR, and GERBODE, FRANK. Experimental papillary muscle infarction, 611

MILLS, ERNEST L. (*See* WISE, TOPUZLU, MILLS, and PAGE), 520

MOBIN-UDDIN, KAZI (*See* BOLOOKI, ROOKS, VIERA, SMITH, MOBIN-UDDIN, LOMBARDO, and JUDE), 590

MOHRI, HITOSHI, REICHENBACH, DENNIS D., BARNES, ROBERT W., and MERENDINO, K. ALVIN. Homologous aortic valve transplantation: alterations in viable and nonviable valves, 767

—, REICHENBACH, DENNIS D., NELSON, RONALD J., BARNES, ROBERT W., and MERENDINO, K. ALVIN. Preparation and preservation of aortic valve grafts with special attention to problem areas, 546

MONTGOMERY, THOMAS (*See* DART, MONTGOMERY, and PETERS), 817

MORROW, ANDREW G. (*See* BRAUNWALD and MORROW), 307

—. (*See* COHN, REIS, and MORROW), 11

—. (*See* PIERCE, BEHRENDT, and MORROW), 229

—. (*See* REIS, ENRIGHT, HANNAH, and MORROW), 647

MORTENSEN, JD, and ANDERSON, LYNN H. Clinical experiences with computerized monitoring of cardiovascular variables in the postoperative patient, 510, 519

MOSES, VIJAI K. (*See* LEWIS, MOSES, QUINN, and PETROVICK), 825

MOULDER, PETER V. (*See* BLACKSTONE, EVANS, ECKNER, DRAKE, and MOULDER), 689

—. Discussion of Thoracic Surgery Forum, 815

MUDD, J. GERARD (*See* BARNER, KAISER, MUDD, JELLINEK, and HANLON), 43

MULDER, DONALD E. (*See* WOLFE, RUTTENBERG, DESILETS, and MULDER), 114

MULDER, DONALD G., and KAUFMAN, JOSEPH J. Acute dissection of the thoracic aorta presenting as renal artery occlusion, 184

MUNNELL, EDWARD R. Discussion of cancer of lung, 369

MUSTARD, WILLIAM T. Discussion of Thoracic Surgery Forum, 507

MYERS, GEORGE H. (*See* PARSONNET, GILBERT, LEWIN, MYERS, ZUCKER, ALPERT, and AVERY), 710

N

NAJAFI, HASSAN, DYE, WILLIAM S., JAVID, HUSHANG, HUNTER, JAMES A., and JULIAN, ORMAND C. Rupture of an otherwise normal aortic valve: report of two cases and review of the literature, 57

NASH, ARTEMIS D. (*See* HUTCHINSON, NASH, and MCCORD), 147

NAZARI, ANOOSHIRAVAN (*See* GAGNON and NAZARI), 428

NELSON, RONALD J. (*See* MOHRI, REICHENBACH, NELSON, BARNES, and MERENDINO), 546

NEMIR, PAUL, JR. Discussion of Thoracic Surgery Forum, 815

NEVILLE, WILLIAM E., COX, WILLIAM D., LEININGER, BERNARD, and PIFARRÉ, ROQUE. Resection of the descending thoracic aorta with femoral vein to femoral artery oxygenation perfusion, 39

—. (*See* HIRSCH, HADIDIAN, and NEVILLE), 197

—. Discussion of Thoracic Surgery Forum, 506

NEWMAN, WILLIAM (*See* ADKINS, WESSELHOEFT, NEWMAN, and BLADES), 351

NUÑEZ, L. (*See* ALVAREZ-DIAZ, BRITO, LOZANO, and NUÑEZ), 221

O

ORIE, N. G. M. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

P

PADULA, RICHARD T., COWAN, GEORGE S. M., JR., and CAMISHION, RUDOLPH C. Photographic analysis of the active and passive components of cardiac valvular action, 790, 798

PAGE, H. GORDON (*See* WISE, TOPUZLU, MILLS, and PAGE), 520

PARSONNET, VICTOR, GILBERT, LAWRENCE, LEWIN, GERHARD, MYERS, GEORGE H., ZUCKER, I. RICHARD, ALPERT, JOSEPH, and AVERY, ROGER. A nonpolarizing electrode for endocardial stimulation of the heart, 710

PATE, JAMES W. Discussion of Thoracic Surgery Forum, 544

PAULSON, DONALD L. (*See* MCNAMARA, VARON, PAULSON, SHAH, and URSCHEL), 371

PAYNE, W. SPENCER. Discussion of Thoracic Surgery Forum, 682

PERRY, JOHN F., JR. Discussion of Thoracic Surgery Forum, 529

PETERS, RICHARD M. (*See* DART, MONTGOMERY, and PETERS), 817

PETROVICK, MATHEW L. (*See* LEWIS, MOSES, QUINN, and PETROVICK), 825

PHILLIPS, STEVEN J. (*See* KANTROWITZ, PHILLIPS, BUTNER, TJØNNELAND, and HALLER), 219

PIERCE, WILLIAM S., BEHRENDT, DOUGLAS M., and MORROW, ANDREW G. A hinged prosthetic cardiac valve fabricated of rigid components: experimental evaluations in vitro and in vivo, 229

PIFARRÉ, ROQUE, and HUFNAGEL, CHARLES A. Pulmonary lesions associated with oxygen therapy for acute myocardial infarction, 203

—. (*See* NEVILLE, COX, LEININGER, and PIFARRÉ), 39

PLUTH, JAMES R., CLELAND, JOHN, TAUXE, W. NEWLON, and KIRKLIN, JOHN W. With the technical assistance of STANLEY DIGERNESS. Late changes in body fluid and blood volume after intracardiac surgery, 108

POOL, JOHN L. Discussion of cancer of lung, 368

PORTER, JOHN M., and SILVER, DONALD. Alterations in fibrinolysis and coagulation associated with cardiopulmonary bypass, 869, 878

Q

QUINN, MICHAEL L. (*See* LEWIS, MOSES, QUINN, and PETROVICK), 825

R

RANDOLPH, JUDSON G. (*See* WESSELHOEFT, GLEW, RANDOLPH, and BLADES, 658

RASSMAN, W., TANAKA, S., SUBRAMANIAN, V., FERLIC, R., and LILLEHEI, C. W. An implantable intrathoracic total and partial circulatory support system, 858, 867

RASTELLI, G. C., TITUS, JACK L., and MCGOON, DWIGHT C. Transthoracic cannulation of the left atrium for circulatory assist, 879

REA, W. J. (*See* SUGG, REA, ECKER, WEBB, ROSE, and SHAW), 531

REDINGTON, JOHN V. (*See* KROHN, MAGIDSON, LEWIS, TSUJI, REDINGTON, and KAY), 748

—. (*See* KROHN, URQUHART, MAGIDSON, TSUJI, REDINGTON, and KAY), 732

REED, W. A. (*See* LOWE, KLINGLER, GRAY, and REED), 83

REICHENBACH, DENNIS D. (*See* MOHRI, REICHENBACH, BARNES, and MERENDINO), 767

—. (*See* MOHRI, REICHENBACH, NELSON, BARNES, and MERENDINO), 546

REIMER, ROBERT. Discussion of Thoracic Surgery Forum, 545

REIS, ROBERT L., ENRIGHT, LEE P., HANNAH, HAMNER, III, and MORROW, ANDREW G. The effects of epicardiectomy on the performance of the acutely ischemic left ventricle, 647

—. (*See* COHN, REIS, and MORROW), 11

RETA-VILLALOBOS, ARMANDO (*See* JIMÉNEZ-MARTÍNEZ, FRANCO-VÁZQUEZ, ANGULO-HERNÁNDEZ, and RETA-VILLALOBOS), 165

RIPSTEIN, CHAS. B., SPAIN, DAVID M., and BLUTH, IRWIN. Scar cancer of lung, 362, 370

ROBICSEK, FRANCIS (*See* SANGER, ROBICSEK, and DAUGHERTY), 141

ROE, BENSON B. Discussion of Thoracic Surgery Forum, 892

ROOKS, JOHN J. (*See* BOLOOKI, ROOKS, VIERA, SMITH, MOBIN-UDDIN, LOMBARDO, and JUDE), 590

ROSE, E. F. (*See* SUGG, REA, ECKER, WEBB, ROSE, and SHAW), 531

ROSENSWEIG, JACOB. Discussion of Thoracic Surgery, 855

ROSS, D. N. (*See* SARIN, HALL, and ROSS), 395

RUBIN, MORRIS. Primary lymphoma of lung, 293

RUIZ, U., SOROFF, H. S., BIRTWELL, W. C., MANY, M., GIRON, F., and DETERLING, R. A., JR. Assisted circulation by synchronous pulsation of extramural pressure, 832

RUTTENBERG, HERBERT D. (*See* WOLFE, RUTTENBERG, DESILETS, and MULDER), 114

S

SAFAVIAN, M. H. (*See* HYMES, SAFAVIAN, ARBULU, and BAUTE), 16

SAKURAI, HIDEKI (*See* LITWAK, KUHN, GADBOYS, LUKBAN, and SAKURAI), 484

SALMON, JAMES H., and BLATT, ETHYL S. Aneurysm of the internal carotid artery due to closed trauma, 28

SAMEH, ABBAS A. (*See* DEDOMENICO, SAMEH, BERGER, WOOD, and SAUVAGE), 617

SAMET, PHILIP (*See* CENTER, SAMET, and LINHART), 170

SAMSON, PAUL C. The compleat thoracic surgeon (President's address), 155

SANDERS, AARON P. (*See* KRAMER, SANDERS, LESAGE, WOODHALL, and SEALY), 699

SANDERS, CHARLES A. (*See* KASTOR, AKBARIAN, BUCKLEY, DINSMORE, SANDERS, SCANNELL, and AUSTEN), 279

SANGER, PAUL W., ROBICSEK, FRANCIS, and DAUGHERTY, HARRY K. The repair of recurrent pectus excavatum, 141

SARIN, C. L., HALL, R. W., and ROSS, D. N. Effects of extracorporeal circulation on left ventricular function with and without anoxic arrest, 395

SAUVAGE, LESTER R. (*See* DEDOMENICO, SAMEH, BERGER, WOOD, and SAUVAGE), 617

SCANNELL, J. GORDON (*See* KASTOR, AKBARIAN, BUCKLEY, DINSMORE, SANDERS, SCANNELL, and AUSTEN), 279

SCHARF, VIOLET (*See* LITWAK, KUHN, GADBOYS, LUKBAN, and SAKURAI), 484

SCHERPENISSE, L. A. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

SCHOENFELD, HENRY (*See* LAGUERRE, SCHOENFELD, CALEM, GOULD, and LEVOWITZ), 674

SCHULTZ, JEPPE (*See* FLEMING, SCHULTZ, and MALM), 253

SEALY, WILL C. (*See* KRAMER, SANDERS, LESAGE, WOODHALL, and SEALY), 699

SELZER, ARTHUR (*See* MILLER, COHN, KERTH, SELZER, and GERBODE), 611

SENNING, ÅKE. Discussion of Thoracic Surgery Forum, 877

SHAH, INDIRA. (*See* MCNAMARA, VARON, PAULSON, SHAH, and URSCHEL), 371

SHAW, R. R. (*See* SUGG, REA, ECKER, WEBB, ROSE, and SHAW), 531

SHIELDS, THOMAS W. Discussion of carcinoma, 359

SHTARK, V. (*See* MELAMED, SHTARK, and LEVY), 754

SHUMWAY, NORMAN E. (*See* ANGELL, STINSON, IBEN, and SHUMWAY), 323

—. (*See* STINSON, CASTELLINO, and SHUMWAY), 554

SILVER, DONALD (*See* PORTER and SILVER), 869

SIRAK, HOWARD D. (*See* AHN, HOSIER, and SIRAK), 177

SKINNER, DAVID B. (*See* BELSEY, DOWLATSHAHI, KEEN, and SKINNER), 497

—. Discussion of Thoracic Surgery Forum, 867

SLOVIN, ALVIN J. (*See* CARESS, KISSACK, SLOVIN, and STUCKEY), 571

SMITH, BALLARD (*See* BOLOOKI, ROOKS, VIERA, SMITH, MOBIN-UDDIN, LOMBARDO, and JUDE), 590

SMITH, DONALD R. (*See* IONESCU, WOOLER, WHITAKER, SMITH, TAYLOR, and HARGREAVES), 333

SOROFF, H. S. (*See* RUIZ, SOROFF, BIRTWELL, MANY, GIRON, and DETERLING), 832

—. Discussion of Thoracic Surgery Forum, 856

SPAIN, DAVID M. (*See* RIPSTEIN, SPAIN, and BLUTH), 362

SPENCER, FRANK C. Discussion of Thoracic Surgery Forum, 697

STARR, ALBERT (*See* BIGELOW, HERR, WOOD, and STARR), 189

—. Discussion of prosthetic valves, 320

—. Discussion of pacing after open cardiac operations, 495

STEFANIK, G. (*See* MEYER, STEFANIK, STILES, LINDESMITH, and JONES), 104

STILES, Q. R. (*See* MEYER, STEFANIK, STILES, LINDESMITH, and JONES), 104

STINSON, EDWARD B., CASTELLINO, RONALD A., and SHUMWAY, NORMAN E. Radiologic signs in endocarditis following prosthetic valve replacement, 554

—. (*See* ANGELL, STINSON, IBEN, and SHUMWAY), 323

STOCKERT, JAMES (*See* BENZING, STOCKERT, DEFOREST, and KAPLAN), 241

STUCKEY, JACKSON H. (*See* CARESS, KISSACK, SLOVIN, and STUCKEY), 571

SUBRAMANIAN, V. (*See* RASSMAN, TANAKA, SUBRAMANIAN, FERLIC, and LILLEHEI), 858

SUGG, W. L., LYNCH, L. J., and WEBB, W. R. Effects of counterpulsation on body fluid compartments, plasma hemoglobin, and hematocrit, 33

—, REA, W. J., ECKER, R. R., WEBB, W. R., ROSE, E. F., and SHAW, R. R. Penetrating wounds of the heart: an analysis of 459 cases, 531, 545

SWENSON, EDWARD W. (*See* DAICOFF, CHAVEZ, ANTON, and SWENSON), 810

SYMBAS, PANAGIOTIS N., HATCHER, CHARLES R., JR., and MANSOUR, KAMAL A. Projectile embolus of the lung, 97

T

TAGUCHI, KAZUMI, MATSUURA, YUICHIRO, YOSHIZAKI, EIICHIRO, and TAMURA, MUTSUO. Surgery of atrioventricular septal defects with left ventricular-right atrial shunt, 265

TAKAGI, HIROYUKI (*See* AKUTSU, TAKAGI, CHENG, and HARDY), 421

TAMMELING, G. J. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

TAMURA, MUTSUO (*See* TAGUCHI, MATSUURA, YOSHIZAKI, and TAMURA), 265

TANAKA, S. (*See* RASSMAN, TANAKA, SUBRAMANIAN, FERLIC, and LILLEHEI), 858

TANDON, R. K. Chylothorax after repair of ventricular septal defect, 378

TAUXE, W. NEWLON (*See* PLUTH, CLELAND, TAUXE, and KIRKLIN), 108

TAYLOR, STANLEY H. (*See* IONESCU, WOOLER, WHITAKER, SMITH, TAYLOR, and HARGREAVES), 333

TAYLOR, WARREN J. Discussion of Thoracic Surgery Forum, 656

TEN HOOR, F. (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

TERZAKI, ABDEL K., LEACHMAN, ROBERT D., ALI, M. KHALIL, HALLMAN, GRADY L., and COOLEY, DENTON A. Successful surgical treatment for "parachute mitral valve" complex: report of 2 cases, 1

THOMAS, F. T. Superiority of right heart systolic pressure over central venous pressure monitoring in prevention of overtransfusion, 886, 892

TICE, DAVID A. Discussion of Thoracic Surgery Forum, 631

TITUS, JACK L. (*See* RASTELLI, TITUS, and MCGOON), 879

TJØNNELAND, STEINAR (*See* KANTROWITZ, PHILLIPS, BUTNER, TJØNNELAND, and HALLER), 219

TOPUZLU, CEMALETTIN (*See* WISE, TOPUZLU, MILLS, and PAGE), 520

TRAER, JON (*See* GILBERT, GRAVANIS, MANSOUR, and TRAER), 88

TRIMBLE, A. S. (*See* BIGELOW, TRIMBLE, AUGER, and WIGLE), 304

—. (*See* KEON and TRIMBLE), 408

TSUJI, HAROLD K. (*See* KROHN, MAGIDSON, LEWIS, TSUJI, REDINGTON, and KAY), 748

—. (*See* KROHN, URQUHART, MAGIDSON, TSUJI, REDINGTON, and KAY), 732

TYNAN, M. J. (*See* LINCOLN, TYNAN, and WATERSTON), 63

U

URQUHART, ROBERT R. (*See* KROHN, URQUHART, MAGIDSON, TSUJI, REDINGTON, and KAY), 732

URSCHEL, HAROLD C., JR. (*See* MCNAMARA, VARON, PAULSON, SHAH, and URSCHEL), 371

V

VALENCIA A., GUILLERMO (*See* FLEGE, VALENCIA A., and ZIMMERMAN), 144

VAN DER HEIDE, J. N. HOMAN (*See* WILDEVUUR, HEEMSTRA, TAMMELING, HILVERING, BOUMA, TEN HOOR, SCHERPENISSE, KLEINE, ORIE, and VAN DER HEIDE), 799

VAN DER WOUDE, RIENTS (*See* MAIER and VAN DER WOUDE), 401

VARON, HAROLD H. (*See* MCNAMARA, VARON, PAULSON, SHAH, and URSCHEL), 371

VIERA, CRISTOBAL E. (*See* BOLOOKI, ROOKS, VIERA, SMITH, MOBIN-UDDIN, LOMBARDO, and JUDE), 590

W

WAKABAYASHI, AKIO, and CONNOLLY, JOHN E. Comparative flow studies of myocardial revascularization grafts, 633

—. Disussion of Thoracic Surgery Forum, 631

WATERSTON, D. J. (*See* LINCOLN, TYNAN, and WATERSTON), 63

WEBB, W. R. (*See* SUGG, LYNCH, and WEBB), 33

—. (*See* SUGG, REA, ECKER, WEBB, ROSE, and SHAW), 531

WELDON, CLARENCE. Discussion of multiple valve replacement, 332

WESSELHOEFT, CONRAD W., JR., GLEW, DONALD H., JR., RANDOLPH, JUDSON G., and BLADES, BRIAN. Experimental and clinical evaluation of an everting esophageal anastomosis in the growing subject, 658

—. (*See* ADKINS, WESSELHOEFT, NEWMAN, and BLADES), 351

WHIFFEN, JAMES D., and GOTT, VINCENT L. Evaluation of cardiac revascularization procedures by means of tissue lactic acid determinations in induced myocardial infarctions, 624

WHITAKER, WILLIAM (*See* IONESCU, WOOLER, WHITAKER, SMITH, TAYLOR, and HARGREAVES), 333

WIGLE, E. D. (*See* BIGELOW, TRIMBLE, AUGER, and WIGLE), 304

WILDEVUUR, CHARLES R. H., HEEMSTRA, H., TAMMELING, G. J., HILVERING, CHR., BOUMA, H. G. D., TEN HOOR, F., SCHERPENISSE, L. A., KLEINE, J. W., ORIE, N. G. M., and VAN DER HEIDE, J. N. HOMAN. Long-term observation of the changes in pulmonary arterial pressure after reimplantation of the canine lung, 799, 809

WISE, ARTHUR J., TOPUZLU, CEMALETTIN, MILLS, ERNEST L., and PAGE, H. GORDON. The importance of serial blood gas determinations in blunt chest trauma, 520, 530

WOLF, PHILLIP S. (*See* JACOBEY, CRADDOCK, WOLF, and BECKWITT), 846

WOLFE, ROBERT R., RUTTENBERG, HERBERT D., DESILETS, DONALD T., and MULDER, DONALD E. Cor triatriatum: total correction in an infant, 114

WOLFSON, SIDNEY K., JR., and MCGUIRE, JOSEPH L. Two blood flowmeter transducer configurations which aid chronic implantation, 239

WOOD, JAMES A. (*See* BIGELOW, HERR, WOOD. and STARR), 189

WOOD, STEPHEN J. (*See* DEDOMENICO, SAMEH, BERGER, WOOD, and SAUVAGE), 617

WOODHALL, BARNES (*See* KRAMER, SANDERS, LESAGE, WOODHALL, and SEALY), 699

WOOLER, GEOFFREY H. (*See* IONESCU, WOOLER, WHITAKER, SMITH, TAYLOR, and HARGREAVES), 333

Y

YOSHIZAKI, EIICHIRO (*See* TAGUCHI, MATSUURA, YOSHIZAKI, and TAMURA), 265

Z

ZERBINI, E. J. (*See* DIAS, ZERBINI, and CURI), 120

ZIKRIA, E. Discussion of Thoracic Surgery Forum, 656

ZIMMERMAN, GEORGE (*See* FLEGE, VALENCIA A., and ZIMMERMAN), 144

ZUCKER, I. RICHARD (*See* PARSONNET, GILBERT, LEWIN, MYERS, ZUCKER, ALPERT, and AVERY), 710

Subject index*

A

Acidosis, respiratory and metabolic, on myocardial contractility, effect of (Caress et al.), 571
Adult, neuroblastoma of anterior mediastinum in (Hutchinson et al.), 147
Alkalosis, metabolic, following heart surgery (Krohn et al.), 732
following heart surgery, prevention of (Krohn et al.), 748
Alterations in fibrinolysis and coagulation associated with cardiopulmonary bypass (Porter and Silver), 869
American Association for Thoracic Surgery: Announcement of 49th Annual Meeting, 305, 455, 609, 765
Annual Meeting notes, 153
President's address (Samson), 155
Roster of Members, 435
Special guest speaker's address (Barnard), 457
Anastomosis, esophageal, everting, in growing subject, experimental and clinical evaluation of (Wesselhoeft et al.), 658
Anemia, hemolytic, and paravalvular leaks following insertion of Starr-Edwards aortic and mitral valves (Kastor et al.), 279
Anesthesia in revascularization surgery (Effler), 163 (Edit.)
Aneurysm of internal carotid artery due to closed trauma (Salmon and Blatt), 28
thoracic: simplified method of resection (Keon and Trimble), 408
ventricular, left, selection of patients for resection of (Key et al.), 477
Angina pectoris, heart failure, and supreventricular arrhythmias, new concept in treatment of: vagal tuning (Bilgutay et al.), 71
Announcement of 49th Annual Meeting, 305, 455, 609, 765
Anomalous origin of left coronary artery, method of definitive surgical treatment of (Meyer et al.), 104
Anoxic arrest, effects of extracorporeal circulation on left ventricular function with and without (Sarin et al.), 395
Anuria, transient, and paraplegia following traumatic rupture of thoracic aorta (Herendeen and King), 599
Aorta, thoracic, descending, with femoral vein to femoral artery oxygenation perfusion, resection of (Neville et al.), 39
presenting as renal artery occlusion, acute dissection of (Mulder and Kaufman), 184
transient anuria and paraplegia following traumatic rupture of (Herendeen and King), 599
Aortic arch, right, right-sided patent ductus arteriosus with (Maier and Van der Woude), 401
homograft replacement of mitral valve: addendum (Bigelow et al.), 304
valve grafts with special attention to problem areas, preparation and preservation of (Mohri et al.), 546
normal, otherwise, rupture of (Najafi et al.), 57
valves and pericardium, effect of transplantation on respiration and composition of (Enerson and Clevenger), 210
Arrhythmias, supraventricular, angina pectoris, and heart failure, new concept in treatment of: vagal tuning (Bilgutay et al.), 71
Arterial pressure, pulmonary, after reimplantation of canine lung, long-term observation of changes in (Wildevuur et al.), 799
Artery, carotid, internal, due to closed trauma, aneurysm of (Salmon and Blatt), 28
coronary, left, method of definitive surgical treatment of anomalous origin of (Meyer et al.), 104
Assessment, preoperative, extended, of patients undergoing pulmonary resection (Bailas et al.), 123
Assisted circulation by synchronous pulsation of extramural pressure (Ruiz et al.), 832
ATP content, cerebral, during circulatory arrest, effect of profound hypothermia on preservation of (Kramer et al.), 699

*July, pp. 1-154; August, pp. 155-306; September, pp. 307-456; October, pp. 457-610; November, pp. 611-766; December, pp. 767-916.

Atresia, esophageal, and tracheoesophageal fistula, esophageal function after successful repair of (Burgess et al.), 667
Atrial septal defect, new technique for creation of (Alvarez-Diaz et al.), 221
Atrialization, ventricular, complete, by implantable heart support device (Akutsu et al.), 421
Atrioventricular septal defects with left ventricular-right atrial shunt, surgery of (Taguchi et al.), 265
Atrium, left, for circulatory assist, transthoracic cannulation of (Rastelli et al.), 879
Augmentation, rate, support of myocardial performance after open cardiac operations by (Litwak et al.), 484
Autologous fresh blood during open-heart surgery, technique for use of (Hardesty et al.), 683
Automatic measurement of tidal volume in postoperative patients (Lewis et al.), 825
Azygos lobe: clinical implications and unusual variant (Civetta and Daggett), 430

B

Bacterial endocarditis, foreign body in right ventricle causing (Melamed et al.), 754
"Ball failure," mechanical, in Starr-Edwards prosthetic valves (Bonnabeau and Lillehei), 258
Ball-valve prosthesis, late results of heart valve replacement with (Lowe et al.), 83
Balloon pumping, phase-shift, technique of femoral artery cannulation for (Kantrowitz et al.), 219
Blocks, building, pacemaking according to a system of (Lagergren and Karlöf), 51
Blood cysts of pulmonary valve producing pulmonic stenosis (Jiménez-Martínez et al.), 165
  fresh, autologous, during open-heart surgery, technique for use of (Hardesty et al.), 683
  gas determinations, serial, in blunt chest trauma, importance of (Wise et al.), 520
  volume after intracardiac surgery, late changes in body fluid and (Pluth et al.), 108
Body fluid and blood volume after intracardiac surgery, late changes in (Pluth et al), 108
  compartments, plasma hemoglobin, and hematocrit, effects of counterpulsation on (Sugg et al.), 33
Bypass, cardiopulmonary, alterations in fibrinolysis and coagulation associated with (Porter and Silver), 869
  with large volume hemodilution, oxygen consumption during (Hirsch et al.), 197

C

Cadaver lung viability, time limits of (Homatas et et al.), 132
Cancer of esophagus, hematemesis from (Barrie and Goodner), 289
  scar, of lung (Ripstein et al.), 362
Canine tricuspid valve with semilunar heterograft, replacement of (Gilbert et al.), 88
Cannulation, artery, femoral, for phase-shift balloon pumping, technique of (Kantrowitz et al.), 219
  transthoracic, of left atrium for circulatory assist (Rastelli et al.), 879
Carcinoma of lung, steroid hormone abnormalities in patients with (Mc Namara et al.), 371
Cardiac function and pathology, comparison of effect of temporary or permanent myocardial ischemia on cardiac function and pathology (Bolooki et al.), 590
  operations, open, by rate augmentation, support of myocardial performance after (Litwak et al.), 484
  output, low, steady-state, secondary to coronary insufficiency in dog, cardiovascular alterations during declining and (Goldfarb and Gott), 578
  revascularization procedures by means of tissue lactic acid determinations in induced myocardial infarctions, evaluation of (Whiffen and Gott), 624
  surgery, profound hypothermia in (Belsey et al.), 497
  valvular action, photographic analysis of active and passive components of (Padula et al.), 790
Cardiopulmonary bypass, alteration in fibrinolysis and coagulation associated with (Porter and Silver), 869
    hypothermic, effect of myocardial ischemia on left ventricular function after (Benzing et al.), 241
    with large volume hemodilution, oxygen consumption during (Hirsch et al.), 197
Cardiovascular alterations during declining and steady-state low cardiac output secondary to coronary insufficiency in dog (Goldfarb and Gott), 578
  variables in postoperative thoracic patient, clinical experiences with computerized monitoring of (Mortensen and Anderson), 510
Carotid artery, internal, due to closed trauma, aneurysm of (Salmon and Blatt), 28
Catheter, Pudenz, from heart, removal of (DeBord et al.), 236

Chest trauma, blunt, importance of serial blood gas determinations in (Wise et al.), 520
Chordae tendineae, comparative studies with resection and preservation of: left ventricular function after mitral valve replacement (Cohn et al.), 11
Chronic implantation, two blood flowmeter transducer configurations which aid (Wolfson and McGuire), 239
Chylothorax after repair of ventricular septal defect (Tandon), 378
Circulation, assisted, by synchronous pulsation of extramural pressure (Ruiz et al.), 832
  human, fluid control devices, "rheostasis," and (Cutler and Burbank), 558
Circulatory arrest, effect of profound hypothermia on preservation of cerebral ATP content during (Kramer et al.), 699
  assist, transthoracic cannulation of left atrium for (Rastelli et al.), 879
  support system, total and partial, intrathoracic, implantable (Rassman et al.), 858
Coagulation associated with cardiopulmonary bypass, alterations in fibrinolysis and (Porter and Silver), 869
Compleat thoracic surgeon: President's address (Samson), 155
Complex, "parachute mitral valve," successful surgical treatment for (Terzaki et al.), 1
Computerized monitoring of cardiovascular variables in postoperative thoracic patient, clinical experiences with (Mortensen and Anderson), 510
Congenital malformation of heart: cor triatriatum (Ahn et al.), 177
Contractility, myocardial, effect of respiratory and metabolic acidosis on (Caress et al.), 571
Cor triatriatum (Ahn et al.), 177
  total correction in infant (Wolfe et al.), 114
Coronary artery disease, clinical experience with counterpulsation in (Jacobey et al.), 846
    left, method of definitive surgical treatment of anomalous origin of (Meyer et al.), 104
    ligation, synchronized counterpulsation in management of ventricular fibrillation following (Fleming et al.), 253
    surgery, experimental: long-term follow-up, bypass venous autografts, longitudinal arteriotomies, and end-to-end anastomoses (Dedomenico et al.), 617
  flow and ventricular function, effects of internal mammary artery implantation upon (Barner et al.), 43
Coronary—Cont'd
  insufficiency in dog, cardiovascular alterations during declining and steady-state low cardiac output secondary to (Goldfarb and Gott), 578
Counterpulsation on body fluid compartments, plasma hemoglobin, and hematocrit, effects of (Sugg et al.), 33
  in coronary artery disease, clinical experience with (Jacobey et al.), 846
  synchronized, in management of ventricular fibrillation following coronary artery ligation (Fleming et al.), 253
Creation of atrial septal defect, new technique for (Alvarez-Diaz et al.), 221
Cysts, blood, of pulmonary valve producing pulmonic stenosis (Jiménez-Martínez et al.), 165

D

Dependent pericardial drainage (Miller and Bramson), 607
Dissection, acute, of thoracic aorta presenting as renal artery occlusion (Mulder and Kaufman), 184
Drainage, pericardial, dependent (Miller and Bramson), 607
Ductus arteriosus, patent, right-sided, with right aortic arch (Maier and Van der Woude), 401

E

Editorial: Anesthesia in revascularization surgery (Effler), 163
Electrode, nonpolarizing, for endocardial stimulation of heart (Parsonnet et al.), 710
Embolism, pulmonary, serotonin-induced pulmonary venous hypertension in (Daicoff et al.), 810
Embolus, projectile, of lung (Symbas et al.), 97
Endocardial fibroma of left ventricle in 10-month-old infant, successful excision of (Lincoln et al.), 63
  stimulation of heart, nonpolarizing electrode for (Parsonnet et al.), 710
Endocarditis, bacterial, foreign body in right ventricle causing (Melamed et al.), 754
  following prosthetic valve replacement, radiologic signs in (Stinson et al.), 554
Epicardiectomy on the performance of the acutely ischemic left ventricle, effects of (Reis et al.), 647
Esophageal anastomosis, everting, in growing subject, experimental and clinical evaluation of (Wesselhoeft et al.), 658
  function after successful repair of esophageal atresia and tracheoesophageal fistula (Burgess et al.), 667

Esophageal—Cont'd
perforations, old, surgical management of (Keen), 603
segments, prosthetic replacement of (LaGuerre et al.), 674
Esophagus, hematemesis from cancer of (Barrie and Goodner), 289
Everting esophageal anastomosis in growing subject, experimental and clinical evaluation of (Wesselhoeft et al.), 658
Excision, successful, of endocardial fibroma of left ventricle in 10-month-old infant (Lincoln et al.), 63
Experimental coronary artery surgery: long-term follow-up, bypass venous autografts, longitudinal arteriotomies, and end-to-end anastomoses (Dedomenico et al.), 617
papillary muscle infarction (Miller et al.), 611
Extracorporeal circulation on left ventricular function with and without anoxic arrest, effects of (Sarin et al.), 395

F

Femoral artery cannulation for phase-shift balloon pumping, technique of (Kantrowitz et al.), 219
Fibrillation, ventricular, following coronary artery ligation, synchronized counterpulsation in management of (Fleming et al.), 253
Fibrinolysis and coagulation associated with cardiopulmonary bypass, alterations in (Porter and Silver), 869
Fibroma, endocardial, of left ventricle in 10-month-old infant, successful excision of (Lincoln et al.), 63
Fistula, arteriovenous, femoral, tolerance after biventricular hypertrophy produced by: experimental hyperkinetic pulmonary hypertension (Dart et al.), 817
tracheoesophageal, esophageal function after successful repair of esophageal atresia and (Burgess et al.), 667
Flow studies, comparative, of myocardial revascularization grafts (Wakabayashi and Connolly), 633
Flowmeter transducer configurations, blood, two, which aid chronic implantation (Wolfson and McGuire), 239
Fluid, body, and blood volume after intracardiac surgery, late changes in (Pluth et al.), 108
control devices, "rheostasis," and human circulation (Cutler and Burbank), 558
Fluorescein for determining site for internal mammary artery implantation, use of (Armellini et al.), 643
Foreign body in right ventricle causing bacterial endocarditis (Melamed et al.), 754
Frame-mounted aortic heterografts, mitral and tricuspid valve replacement with (Carpentier et al.), 388

G

General Electric and Medtronic transthoracic pacemakers, clinical experience with (Bigelow et al.), 189
Grafts, revascularization, myocardial, comparative flow studies of (Wakabayashi and Connolly), 633
valve, aortic, with special attention to problem areas, preparation and preservation of (Mohri et al.), 546
Growing subject, experimental and clinical evaluation of everting esophageal anastomosis in (Wesselhoeft et al.), 658

H

Heart, congenital malformation of: cor triatriatum (Ahn et al.), 177
failure, supraventricular arrhythmias and angina pectoris, new concept in treatment of: vagal tuning (Bilgutay et al.), 71
nonpolarizing electrode for endocardial stimulation of (Parsonnet et al.), 710
penetrating wounds of (Sugg et al.), 531
pervenous standby pacing of (Center et al.), 170
removal of Pudenz catheter from (DeBord et al.), 236
support device, implantable, complete ventricular atrialization by (Akutsu et al.), 421
surgery, metabolic alkalosis following (Krohn et al.), 732
prevention of metabolic alkalosis following (Krohn et al.), 748
transplants, what we have learned about: Guest speaker's address (Barnard), 457
valve replacement with ball-valve prosthesis, late results of (Lowe et al.), 83
with reinforced aortic heterografts (Ionescu et al.), 333
rigid, tissue ingrowth and (Braunwald and Morrow), 307
Hemangioendothelioma, polypoid, obstruction of child's trachea by (Flege et al.), 144
Hematemesis from cancer of esophagus (Barrie and Goodner), 289
Hematocrit, effects of counterpulsation on body fluid compartments, plasma hemoglobin, and (Sugg et al.), 33
Hemodilution, volume, large, oxygen consumption during cardiopulmonary bypass with (Hirsch et al.), 197

Heterograft(s), aortic, frame-mounted, mitral and tricuspid valve replacement with (Carpentier et al.), 388
reinforced, heart valve replacement with (Ionescu et al.), 333
semilunar, replacement of canine tricuspid valve with (Gilbert et al.), 88
Heterotopic allovital aortic valve transplants in presensitized and nonsensitized recipients, immunologic response to (Baue et al.), 775
Hinged prosthetic cardiac valve fabricated of rigid components (Pierce et al.), 229
Homograft, aortic, fresh, multiple valve replacement with (Angell et al.), 323
of pulmonary artery or ascending aorta with valve as a right ventricular outflow (Eguchi and Asano), 413
replacement, aortic, of mitral valve: addendum (Bigelow et al.), 304
Homologous aortic valve transplantation (Mohri et al.), 767
Hormone abnormalities, steroid, in patients with carcinoma of lung (McNamara et al.), 371
Hypertension, pulmonary, hyperkinetic, experimental (Dart et al.), 817
venous, pulmonary, serotonin-induced, in pulmonary embolism (Daicoff et al.), 810
Hypertrophies of left ventricle, ventriculomyotomy in (Binet et al.), 469
Hypertrophy, biventricular, produced by femoral arteriovenous fistula, tolerance after: experimental hyperkinetic pulmonary hypertension (Dart et al.), 817
Hypothermia, profound, in cardiac surgery (Belsey et al.), 497
on preservation of cerebral ATP content during circulatory arrest, effect of (Kramer et al.), 699
Hypothermic cardiopulmonary bypass, effect of myocardial ischemia on left ventricular function after (Benzing et al.), 241
perfusion, profound, in dogs, pulmonary changes following normothermic and (Miller and Kuenzig), 717

I

Immunologic response to heterotopic allovital aortic valve transplants in presensitized and nonsensitized recipients (Baue et al.), 775
Implantable heart support device, complete ventricular atrialization by (Akutsu et al.), 421
intrathoracic total and partial circulatory support system (Rassman et al.), 858
Implantation, artery, mammary, internal (Barner et al.), 43
use of fluorescein for determining site for (Armellini et al.), 643
chronic, two blood flowmeter transducer configurations which aid (Wolfson and McGuire), 239
Infant, total correction of cor triatriatum in (Wolfe et al.), 114
Infarction, muscle, papillary, experimental (Miller et al.), 611
myocardial, acute, pulmonary lesions associated with oxygen therapy for (Pifarré and Hufnagel), 203
Ingrowth, tissue, and the rigid heart valve (Braunwald and Morrow), 307
Insertion of Starr-Edwards aortic and mitral valves, paravalvular leaks and hemolytic anemia following (Kastor et al.), 279
Internal mammary artery implantation (Barner et al.), 43
Intracardiac surgery, late changes in body fluid and blood volume after (Pluth et al.), 108
Ischemia, myocardial, on left ventricular function after hypothermic cardiopulmonary bypass, effect of (Benzing et al.), 241
temporary or permanent, on cardiac function and pathology, comparison of effect of (Bolooki et al.), 590
Ischemic left ventricle, acutely, effects of epicardiectomy on performance of (Reis et al.), 647

L

Lactic acid determinations, tissue, in induced myocardial infarctions, evaluation of cardiac revascularization procedures by means of (Whiffen and Gott), 624
Leaks, paravalvular, and hemolytic anemia following insertion of Starr-Edwards aortic and mitral valves (Kastor et al.), 279
Ligation, coronary artery, synchronized counterpulsation in management of ventricular fibrillation following (Fleming et al.), 253
LMWD, mannitol, saline, and Pluronic F-68 as priming agents in heart-lung apparatus, comparison of. Part I (Hymes et al.), 16
Part II (Hymes and Beck), 23
Lobe, azygos: clinical implications and unusual variant (Civetta and Daggett), 430

Lung, canine, long-term observation of changes in pulmonary arterial pressure after reimplantation of (Wildevuur et al.), 799
primary lymphoma of (Rubin), 293
projectile embolus of (Symbas et al.), 97
scar cancer of (Ripstein et al.), 362
steroid hormone abnormalities in patients with carcinoma of (McNamara et al.), 371
suture technique for wedge resection of (Gagnon and Nazari), 428
viability, cadaver, times limits of (Homatas et al.), 132
Lymphoma, primary, of lung (Rubin), 293

M

Malignancy, previous, thoracotomy on patient with: metastasis or new primary? (Adkins et al.), 351
Mammary artery implantation, internal (Barner et al.), 43
use of fluorescein for determining site for (Armellini et al.), 643
Mannitol, saline, Pluronic F-68, and LMWD as priming agents in heart-lung apparatus, comparison of. Part I (Hymes et al.), 16
Part II (Hymes and Beck), 23
Mechanical "ball failure" in Starr-Edwards prosthetic valves (Bonnabeau and Lillehei), 258
Mediastinum, anterior, in adult, neuroblastoma of (Hutchinson et al.), 147
Medtronic and General Electric transthoracic pacemakers, clinical experience with (Bigelow et al.), 189
Metabolic acidosis on myocardial contractility, effect of respiratory and (Caress et al.), 571
alkalosis following heart surgery (Krohn et al.), 732
prevention of (Krohn et al.), 748
Metastasis on new primary: thoracotomy on patient with previous malignancy (Adkins et al.), 351
Mitral valve, aortic homograft replacement of: addendum (Bigelow et al.), 304
parachute, complex, successful surgical treatment for (Terzaki et al.), 1
and tricuspid valve replacement with frame-mounted aortic heterografts (Carpentier et al.), 388
valve replacement, left ventricular function after: comparative studies with resection and preservation of chordae tendineae (Cohn et al.), 11
Monitoring, computerized, of cardiovascular variables in postoperative thoracic patient, clinical experiences with (Mortensen and Anderson), 510
Monitoring—Cont'd
in prevention of overtransfusion, superiority of right heart systolic pressure over central venous pressure (Thomas), 886
Multiple valve replacement with fresh aortic homograft (Angell et al.), 323
Myocardial contractility, effect of respiratory and metabolic acidosis on (Caress et al.), 571
infarction(s), acute, pulmonary lesions associated with oxygen therapy for (Pifarré and Hufnagel), 203
induced, evaluation of cardiac revascularization procedures by means of tissue lactic acid determinations in (Whiffen and Gott), 624
injury, perfusion-induced (Blackstone et al.), 689
ischemia on left ventricular function after hypothermic cardiopulmonary bypass, effect of (Benzing et al.), 241
temporary or permanent, on cardiac function and pathology, comparison of effect of (Bolooki et al.), 590
performance after open cardiac operations by rate augmentation, support of (Litwak et al.), 484
revascularization grafts, comparative flow studies of (Wakabayashi and Connolly), 633

N

Neuroblastoma of anterior mediastinum in adult (Hutchinson et al.), 147
"Nonthrombogenic" surfaces, preparation and evaluation of (Lagergren et al.), 381
Normothermic and profound hypothermic perfusion in dogs, pulmonary changes following (Miller and Kuenzig), 717

O

Obstruction of child's trachea by a polypoid hemangioendothelioma (Flege et al.), 144
Occlusion, renal artery, acute dissection of thoracic aorta presenting as (Mulder and Kaufman), 184
Open-heart surgery, technique for use of autologous fresh blood during (Hardesty et al.), 683
Origin, anomalous, of left coronary artery, method of definitive surgical treatment of (Meyer et al.), 104
Overtransfusion, superiority of right heart systolic pressure over central venous pressure monitoring in prevention of (Thomas), 886

Oxygen consumption during cardiopulmonary bypass with large volume hemodilution (Hirsch et al.), 197
of certain fluids used as priming agents in heart-lung bypass apparatus, the in vitro influence on (Hymes and Beck), 23
therapy for acute myocardial infarction, pulmonary lesions associated with (Pifarré and Hufnagel), 203
Oxygenation perfusion, femoral vein to femoral artery, resection of descending thoacic aorta with (Neville et al.), 39

P

Pacemakers, transthoracic, General Electric, Medtronic and, clinical experience with (Bigelow et al.), 189
Pacemaking according to a system of building blocks (Lagergren and Karlöf), 51
Pacing, standby, pervenous, of heart (Center et al.), 170
Papillary muscle infarction, experimental (Miller et al.), 611
"Parachute mitral valve" complex, successful surgical treatment for: report of 2 cases (Terzaki et al.), 1
Paraplegia following traumatic rupture of thoracic aorta, transient anuria and (Herendeen and King), 599
Patent ductus arteriosus, right-sided with right aortic arch (Maier and Van der Woude), 401
Pectus excavatum, recurrent, repair of (Sanger et al.), 141
Penetrating wounds of heart (Sugg et al.), 531
Perforations, esophageal, old, surgical management of (Keen), 603
Perfusion, hypothermic, profound, in dogs, pulmonary changes following normothermic and (Miller and Kuenzig), 717
oxygenation, femoral vein to femoral artery, resection of descending thoracic aorta with (Neville et al.), 39
Perfusion-induced myocardial injury (Blackstone et al.), 689
Pericardial drainage, dependent (Miller and Bramson), 607
Pericardium, effect of transplantation on respiration and composition of aortic valves and (Enerson and Clevenger), 210
Pervenous standby pacing of heart (Center et al.), 170
Phase-shift balloon pumping, technique of femoral artery cannulation for (Kantrowitz et al.), 219
Photographic analysis of active and passive components of cardiac vavular action (Padula et al.), 790
Plasma hemoglobin, effects of counterpulsation on body fluid compartments, hematocrit and (Sugg et al.), 33
substitute, first use of Pluronic F-68 as (Hymes et al.), 16
Pleural poudrage, talcs for (Grabowski and Malt), 760
stone (Dias et al.), 120
Pluronic F-68, LMWD, mannitol, and saline as priming agents in heart-lung apparatus, comparison of. Part I (Hymes et al.), 16
Part II (Hymes and Beck), 23
Polypoid hemangioendothelioma, obstruction of child's trachea by (Flege et al.), 144
Poudrage, pleural, talcs for (Grabowski and Malt), 760
Preparation and evaluation of "nonthrombogenic" surfaces (Lagergren et al.), 381
and preservation of aortic valve grafts with special attention to problem areas (Mohri et al.), 546
Preservation of aortic valve grafts, with special attention to problem areas, preparation and (Mohri et al.), 546
of cerebral ATP content during circulatory arrest, effect of profound hypothermia on (Kramer et al.), 699
President's address: The compleat thoracic surgeon (Samson), 155
Pressure, extramural, assisted circulation by synchronous pulsation of (Ruiz et al.), 832
monitoring in prevention of overtransfusion: superiority of right heart systolic pressure over central venous pressure (Thomas), 886
Prevention of metabolic alkalosis following heart surgery (Krohn et al.), 748
of overtransfusion, superiority of right heart systolic pressure over central venous pressure monitoring in (Thomas), 886
Previous malignancy, thoracotomy on patient with: metastasis or new primary? (Adkins et al.), 351
Primary lymphoma of lung (Rubin), 293
Priming agents in heart-lung apparatus, comparison of Pluronic F-68, LMWD, mannitol, and saline as. Part I (Hymes et al.), 16
Part II (Hymes and Beck), 23
Profound hypothermia in cardiac surgery (Belsey et al.), 497
Projectile embolus of lung (Symbas et al.), 97
Prosthesis, ball-valve, late results of heart valve replacement with (Lowe et al.), 83
Prosthetic cardiac valve, hinged, fabricated of rigid components (Pierce et al.), 229
replacement of esophageal segments (LaGuerre et al.), 674

Prosthetic—Cont'd
valve replacement, radiologic signs in endocarditis following (Stinson et al.), 554
valves, Starr-Edwards, mechanical "ball failure" in (Bonnabeau and Lillehei), 258
Pudenz catheter from heart, removal of (DeBord et al.), 236
Pulmonary arterial pressure after reimplantation of canine lung, long-term observation of changes in (Wildevuur et al.), 799
artery or ascending aorta with valve as right ventricular outflow, homograft of (Eguchi and Asano), 413
changes following normothermic and profound hypothermic perfusion in dogs (Miller and Kuenzig), 717
embolism, serotonin-induced pulmonary venous hypertension in (Daicoff et al.), 810
hypertension, hyperkinetic, experimental (Dart et al.), 817
lesions associated with oxygen therapy for acute myocardial infarction (Pifarré and Hufnagel), 203
resection, extended preoperative assessment of patients undergoing (Bailas et al.), 123
valve producing pulmonic stenosis, blood cysts of (Jiménez-Martínez et al.), 165
Pulmonic stenosis, blood cysts of pulmonary valve producing (Jiménez-Martínez et al.), 165
Pulsation, synchronous, of extramural pressure, assisted circulation by (Ruiz et al.), 832
Pumping, balloon, phase-shift, technique of femoral artery cannulation for (Kantrowitz et al.), 219

R

Radiologic signs in endocarditis following prosthetic valve replacement (Stinson et al.), 554
Recurrent pectus excavatum, repair of (Sanger et al.), 141
Reimplantation of canine lung, long-term observation of changes in pulmonary arterial pressure after (Wildevuur et al.), 799
Removal of Pudenz catheter from heart (DeBord et al.), 236
Renal artery occlusion, acute dissection of thoracic aorta presenting as (Mulder and Kaufman), 184
Repair of recurrent pectus excavatum (Sanger et al.), 141
Replacement of canine tricuspid valve with semilunar heterograft (Gilbert et al.), 88
homograft, aortic, of mitral valve: addendum (Bigelow et al.), 304
prosthetic, of esophageal segments (LaGuerre et al.), 674
Replacement—Cont'd
valve, heart, with ball-valve prosthesis, late results of (Lowe et al.), 83
with reinforced aortic heterografts (Ionescu et al.), 333
mitral, left ventricular function after: comparative studies with resection and preservation of chordae tendineae (Cohn et al.), 11
and tricuspid, with frame-mounted aortic heterografts (Carpentier et al.), 388
multiple, with fresh aortic homograft (Angell et al.), 323
prosthetic, radiologic signs in endocarditis following (Stinson et al.), 554
Resection of descending thoracic aorta with femoral vein to femoral artery oxygenation perfusion (Neville et al.), 39
of left ventricular aneurysm, selection of patients for (Key et al.), 477
pulmonary, extended preoperative assessment of patients undergoing (Bailas et al.), 123
of thoracic aneurysm, simplified method of (Keon and Trimble), 408
Respiration: automatic measurement of tidal volume in postoperative patients (Lewis et al.), 825
and composition of aortic valves and pericardium, effect of transplantation on (Enerson and Clevenger), 210
Respiratory and metabolic acidosis on myocardial contractility, effect of (Caress et al.), 571
Revascularization grafts, myocardial, comparative flow studies of (Wakabayashi and Connolly), 633
procedures, cardiac, by means of tissue lactic acid determinations in induced myocardial infarctions, evaluation of (Whiffen and Gott), 624
surgery, anesthesia in (Effler), 163 (Edit.)
"Rheostasis," fluid control devices, and human circulation (Cutler and Burbank), 558
Rigid components, hinged prosthetic cardiac valve fabricated of (Pierce et al.), 229
heart valve, tissue ingrowth and (Braunwald and Morrow), 307
Rupture of otherwise normal aortic valve (Najafi et al.), 57

S

Saline, Pluronic F-68, LMWD, and mannitol as priming agents in heart-lung apparatus, comparison of. Part I (Hymes et al.), 16
Part II (Hymes and Beck), 23
Scar cancer of lung (Ripstein et al.), 362
Segments, esophageal, prosthetic replacement of (LaGuerre et al.), 674

Septal defect(s), atrial, new technique for creation of (Alvarez-Diaz et al.), 221
atrioventricular, with left ventricular-right atrial shunt, surgery of (Taguchi et al.), 265
ventricular, chylothorax after repair of (Tandon), 378
Serial blood gas determinations in blunt chest trauma, importance of (Wise et al.), 520
Serotonin-induced pulmonary venous hypertension in pulmonary embolism (Daicoff et al.), 810
Shunt, left ventricular-right atrial, surgery of atrioventricular septal defects with (Taguchi et al.), 265
Special guest speaker's address: What we have learned about heart transplants (Barnard), 457
Standby pacing, pervenous, of heart (Center et al.), 170
Starr-Edwards aortic and mitral valves, paravalvular leaks and hemolytic anemia following insertion of (Kastor et al.), 279
prosthetic valves, mechanical "ball failure" in (Bonnabeau and Lillehei), 258
Steroid hormone abnormalities in patients with carcinoma of lung (McNamara et al.), 371
Stimulation, endocardial, of heart, nonpolarizing electrode for (Parsonnet et al.), 710
Stone, pleural (Dias et al.), 120
Support system, circulatory, total and partial, intrathoracic, implantable (Rassman et al.), 858
Surfaces, "nonthrombogenic," preparation and evaluation of (Lagergren et al.), 381
Suture technique for wedge resection of lung (Gagnon and Nazari), 428
System of building blocks, pacemaking according to a (Lagergren and Karlöf), 51

T

Talcs for pleural poudrage (Grabowski and Malt), 760
Thoracic aneurysm: simplified method of resection (Keon and Trimble), 408
surgeon, compleat (Samson), 155
Thoracotomy on patient with previous malignancy: metastasis or new primary? (Adkins et al.), 351
Tidal volume in postoperative patients, automatic measurement of (Lewis et al.), 825
Time limits of cadaver lung viability (Homatas et al.), 132
Tissue ingrowth and the rigid heart valve (Braunwald and Morrow), 307
Trachea, child's, by polypoid hemangioendothelioma, obstruction of (Flege et al.), 144
Tracheoesophageal fistula, esophageal function after successful repair of esophageal atresia and (Burgess et al.), 667
Transducer configurations, flowmeter, blood, two, which aid chronic implantation (Wolfson and McGuire), 239
Transplantation on respiration and composition of aortic valves and pericardium, effect of (Enerson and Clevenger), 210
valve, aortic, homologous (Mohri et al.), 767
Transplants, heart, what we have learned about: Guest speaker's address (Barnard), 457
valve, aortic, allovital, heterotopic, in presensitized and nonsensitized recipients, immunologic response to (Baue et al.), 775
Transthoracic cannulation of left atrium for circulatory assist (Rastelli et al.), 879
Trauma, chest, blunt, importance of serial blood gas determinations in (Wise et al.), 520
closed, aneurysm of internal carotid artery due to (Salmon and Blatt), 28
Traumatic rupture of thoracic aorta, transient anuria and paraplegia following (Herendeen and King), 599
Tricuspid valve, canine, with semilunar heterograft, replacement of (Gilbert et al.), 88
Tuning, vagal: new concept in treatment of supraventricular arrhythmias, angina pectoris, and heart failure (Bilgutay et al.), 71

V

Vagal tuning: new concept in treatment of supraventricular arrhythmias, angina pectoris, and heart failure (Bilgutay et al.), 71
Valve(s), aortic and mitral, Starr-Edwards, paravalvular leaks and hemolytic anemia following insertion of (Kastor et al.), 279
normal, otherwise, rupture of (Najafi et al.), 57
cardiac, prosthetic, hinged, fabricated of rigid components (Pierce et al.), 229
replacement, heart, with reinforced aortic heterografts (Ionescu et al.), 333
mitral and tricuspid, with frame-mounted aortic heterografts (Carpentier et al.), 388
(multiple) with fresh aortic homografts (Angell et al.), 323

Valve(s)—Cont'd
transplantation, aortic, homologous (Mohri et al.), 767
transplants, aortic, allovital, heterotopic, in presensitized and nonsensitized recipients, immunologic response to (Baue et al.), 775
viable and nonviable, alterations in: homologous aortic valve transplantation (Mohri et al.), 767
Valvular action, cardiac, photographic analysis of active and passive components of (Padula et al.), 790
Venous hypertension, pulmonary, serotonin-induced, in pulmonary embolism (Daicoff et al.), 810
Ventricle, left, ischemic, acutely, effects of epicardiectomy on performance of (Reis et al.), 647
in 10-month-old infant, successful excision of endocardial fibroma of (Lincoln et al.), 63
ventriculomyotomy in hypertrophies of (Binet et al.), 469
right, causing bacterial endocarditis, foreign body in (Melamed et al.), 754
Ventricular aneurysm, left, selection of patients for resection of (Kay et al.), 477
atrialization, complete, by implantable heart support device (Akutsu et al.), 421
fibrillation following coronary artery ligation, synchronized counterpulsation in management of (Fleming et al.), 253
Ventricular—Cont'd
function and coronary flow, effects of internal mammary artery implantation upon (Barner et al.), 43
left, after, hypothermic cardiopulmonary bypass, effect of myocardial ischemia on (Benzing et al.), 241
after mitral valve replacement: comparative studies with resection and preservation of chordae tendineae (Cohn et al.), 11
with and without anoxic arrest, effects of extracorporeal circulation on (Sarin et al.), 395
outflow, right, homograft of pulmonary artery on ascending aorta with valve as (Eguchi and Asano), 413
septal defect, chylothorax after repair of (Tandon), 378
Ventriculomyotomy in hypertrophies of left ventricle (Binet et al.), 469
Viability, lung, cadaver, time limits of (Homatas et al.), 132

W

Wedge resection of lung, suture technique for (Gagnon and Nazari), 428
Wounds, penetrating, of heart (Sugg et al.), 531